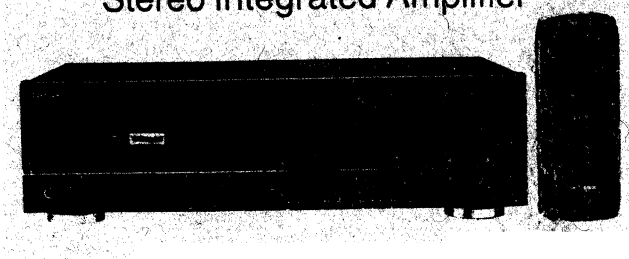
ORDER NO. AD9207257C8

Service Manual

Amplifier

Stereo Integrated Amplifier



SU-VX720

Colour

(K)	Black Type

Areas

Suffix for Model No.	Area	Colour
(EG)	Europe	(K)
(EB)	Great Britain	
(EO)	Switzerland	
(GC)	Asia, Latin America, Middle Near East and Africa	
(GN)	Oceania	

SPECIFICATIONS (DIN 45 500)

20 Hz~20 kHz continuous power output both channels driven	2×55 W (8 Ω)
1 kHz continuous power output both channels driven (THD: 1%)	: 2×70 W (8 Ω) 2×100 W (4 Ω)
63 Hz~12.5 kHz continuous power output both channels driven (THD: 0.7%)	: 2×65 W (8 Ω) 2×85 W (4 Ω)
Total harmonic distortion rated power at 20 Hz~20 kHz	0.007% (8 Ω)
Intermodulation distortion (50 Hz: 7 kHz = 4:1, SMPTE) rated power	0.007% (8 Ω)
Residual hum and noise	1 mV
Damping factor	60 (8 Ω), 30 (4 Ω)
Headphones output level/impedance	540 mV/330 Ω
Load impedance	
A or B, BI-WIRING	4 Ω~16 Ω
A and B	8 Ω~16 Ω
Input sensitivity/impedance	
PHONO MM	2.5 mV/47 kΩ
PHONO MC	170 μV/220 Ω
TUNER, CD, AUX, TAPE 1, TAPE 2/DAT	150 mV/22 kΩ
Phono maximum input voltage (1 kHz, RMS)	
MM	160 mV (IHF '66)
MC	12 mV (IHF '66)
S/N (rated power, 4 Ω)	
PHONO MM	78 dB (85 dB, IHF '66)
PHONO MC	64 dB (S = 250 μV, 66 dB, IHF '66)
TUNER, CD, AUX, TAPE 1, TAPE 2/DAT	91 dB (99 dB, IHF '66)
S/N at −26 dB power (4 Ω)	
PHONO MM	68 dB
PHONO MC	63 dB
TUNER, CD, AUX, TAPE 1, TAPE 2/DAT	70 dB
S/N at 50 mW power (4 Ω)	
PHONO MM	64 dB
PHONO MC	60 dB
TUNER, CD, AUX, TAPE 1, TAPE 2/DAT	64 dB
Frequency response	
PHONO MM	RIAA standard curve ±0.3 dB (30 Hz~15 kHz)
TUNER, CD, AUX, TAPE 1, TAPE 2/DAT	3 Hz~80 kHz (+0, −3 dB) +0 dB, −0.3 dB (20 Hz~20 kHz)
Tone controls	
BASS	50 Hz, +10~−10 dB
TREBLE	20 kHz, +10~−10 dB
Subsonic filter	30 Hz, −6 dB/oct
Loudness control (volume at −30 dB)	50 Hz, +9 dB
Output voltage	
TAPE 1, TAPE 2/DAT REC OUT	150 mV
Channel balance (AUX 250 Hz~6.3 kHz)	±1 dB
Channel separation (AUX 1 kHz)	50 dB

■ GENERAL

Power consumption	250 W
Power supply	
For (EG), (EB), (EO), (GN) areas	AC 50 Hz/60 Hz, 230 V/240 V
For (GC) area	AC 50 Hz/60 Hz, 110 V−127 V/220 V−240 V
Dimensions (W × H × D)	430 × 125 × 316 mm
Weight	8.7 kg

Notes:

1. Specifications are subject to change without notice. Weight and dimensions are approximate.
2. Total harmonic distortion is measured by the digital spectrum analyzer.

Technics

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■ BEFORE REPAIR AND ADJUSTMENT

(1) Turn off the power supply. Using a 10Ω, 10 W resistor, shortcircuit both ends of power supply capacitors Z701-1 and Z701-2 in order to discharge the voltage.
(2) Before turning on the power switch of the unit.
A. Connect the voltage controller to the primary side.
B. Connect the AC ampere meter to the primary side or connect the DC voltage meter to the "±B" circuit of the secondary side.
C. Turn the VR of ICQ (VR451 and VR452) to minimum (counterclockwise).
D. After setting the output to zero of the voltage controller, turn on the power switch of the unit.
And increase the output of voltage controller gradually.
Then, check carefully whether the current value of primary side become more than following value or whether the DC voltage of secondary side is increasing slowly.
E. If the value of current is increasing unusually or the DC voltage is not increasing, lower the output level of voltage controller immediately.
•The current value of the primary side at no signal. (Confirm the power supply voltage of each area and provided voltage of the unit.)

Power supply voltage		AC 110~127 V	AC 220~240 V	AC 230 V	AC 240 V
Consumed current	50 Hz	320~520 mA	110~310 mA	110~310 mA	100~300 mA

■ PROTECTION CIRCUITRY

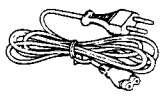
The protection circuitry of the amplifier may have operated if either of the following conditions is noticed:
•No sound is heard when the power is turned on.
•Sound stops during a performance.
The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted", or if speaker systems with an impedance less than the indicated rated impedance of the amplifier are used.

If this occurs, follow the procedure outlined below:
1. Turn off the power.
2. Determine the cause of the problem and correct it.
3. Turn on the power once again.

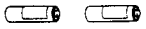
Note:
When the protection circuitry functions, the unit will not operate unless the power is first turned off and then on again.

■ ACCESSORIES

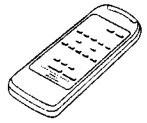
•AC power supply cord 1
<RJA0019-1K>: (EG), (EO)
<SJA193>: (EB)
<RJA0004>: (GC)
<SJA173>: (GN)



•Batteries 2
<R03>



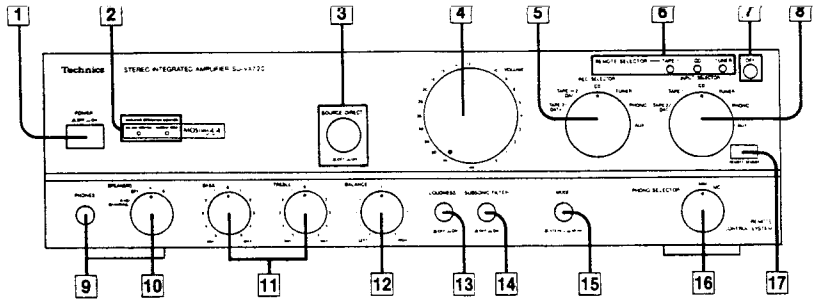
•Remote control transmitter (RAK-SU301W) 1



•Power plug adaptor 1
<SJP9215>: (GC) area only

The configuration of the AC power supply cord differs according to area.

■ FUNCTION OF CONTROLS



1 Power switch (POWER)

2 Operation indicators (AMPLIFIER OPERATION MONITOR)
These indicators illuminate to indicate the operating condition of this unit.
VOLTAGE CONTROL:
When the power is switched ON, this indicator illuminates when the unit is in the operating condition.
CURRENT DRIVE:
When the power is switched ON, this indicator illuminates after about 4 seconds when the unit is in the operating condition.
If an abnormal condition in the circuitry is detected, such as DC voltage appearing in the output, or a short-circuit of the positive (+) and negative (−) wires from the speaker terminals, the protection circuit functions and this indicator will not illuminate.

3 Source direct switch (SOURCE DIRECT)
This switch is used when enjoying high quality sound playback such as that from a CD.

4 Volume control (VOLUME)

5 Recording selector (REC SELECTOR)
This selector is used to select the sound source to be recorded by the connected first tape deck and/or second tape deck (or DAT).

6 Remote control input indicator (REMOTE SELECTOR)
This indicator illuminates to indicate the input source selected (TAPE 1, CD or TUNER).
While this indicator is illuminated, the input will not change even if the input source is changed using the main unit input selector.

7 Remote control input erase button (OFF)
This button is used to erase the input selected on the remote control transmitter in order to select the desired source using the input selector on the main unit.

8 Input selector (INPUT SELECTOR)
This selector is used to select the sound source to be heard, such as a disc, radio broadcast, etc.

9 Headphones jack (PHONES)

10 Speaker selector (SPEAKERS)
This selector is used to select the speakers to be used.

11 Tone controls (BASS/TREBLE)
The bass control is used to adjust the low-frequency sound range, and the treble control is used to adjust the high-frequency sound range.

12 Balance control (BALANCE)
This control is used to adjust the left/right volume balance.

13 Loudness switch (LOUDNESS)
This switch is used when listening to music at a low volume level. Auditory perception of sound in the low frequency range falls off at low volume, but when the switch is set to the "ON" position, this deficiency is compensated for, so that the full impact of the musical performance can be enjoyed.

14 Subsonic filter switch (SUBSONIC FILTER)
This switch is used to eliminate ultra-low-frequency noise such as motor "rumble" and unusual vibration of the woofer cone caused by a warped disc, etc.

15 Mode selector (MODE)
This selector is used to select stereo or monaural operation.

16 Phono cartridge selector (PHONO SELECTOR)
This selector should be set to the position which corresponds to the type of cartridge used on the turntable.

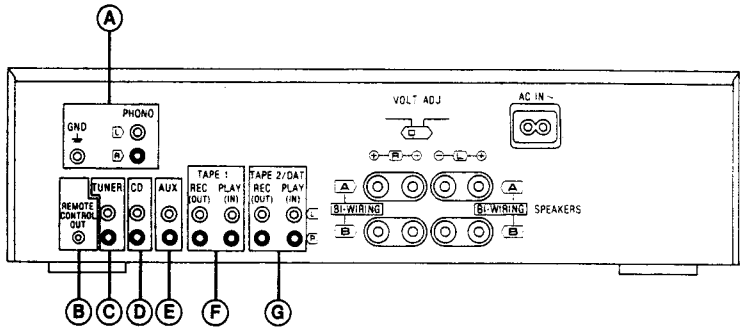
17 Remote control signal receptor (REMOTE SENSOR)
Receives the signals from the remote control.

■ CONNECTIONS

To connect to each terminals

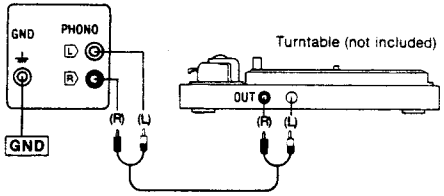
Make connections to each component in the system by using stereo connection cables (not included).

Stereo connection cable White (L) / Red (R)



Ⓐ "PHONO" terminals

Connect to a turntable.



•Phono input capacitance is about 470 pF.

■ "GND" terminal

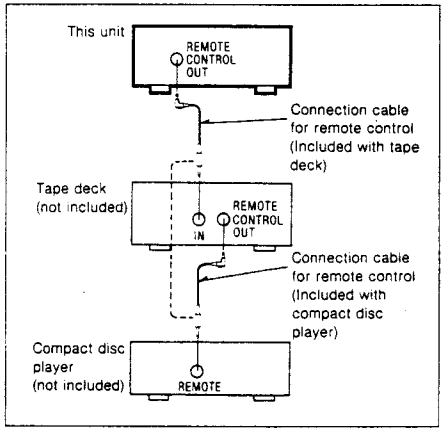
This terminal is for use with a turntable which has a ground wire.

Ⓑ "REMOTE CONTROL OUT" terminals

This terminal can be used only with Technics tape deck and compact disc player which have the appropriate remote control terminal. (Consult your dealer for details.)
Proper connection with remote control connection cables will allow control of some functions from this unit's remote control transmitter.

Connect to a tape deck and/or compact disc player as shown below.

If a tape deck is not being used, the compact disc player can be connected directly (dotted line).

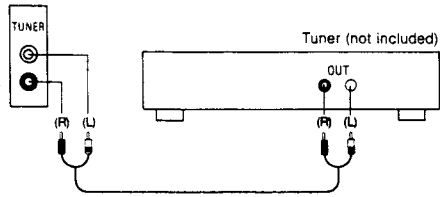

This unit
REMOTE CONTROL OUT
Connection cable for remote control (Included with tape deck)
Tape deck (not included)
IN
REMOTE CONTROL OUT
Connection cable for remote control (Included with compact disc player)
Compact disc player (not included)
REMOTE

Note:
For a compact disc player with a remote control sensor the above connection is not necessary.

SU-VX720

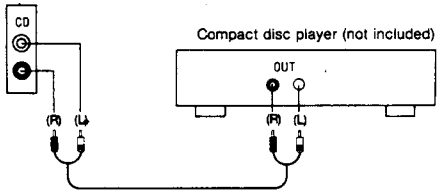
Ⓒ "TUNER" terminals

Connect to a tuner.



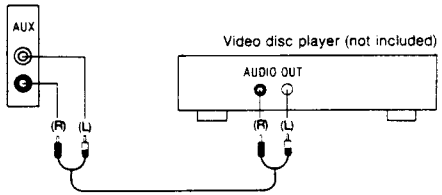
Ⓓ "CD" terminals

Connect to a compact disc player.



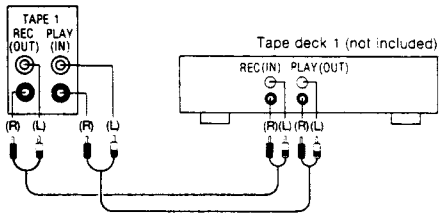
Ⓔ "AUX" terminals

Connect to a component such as a video disc player (audio only connectable), etc.



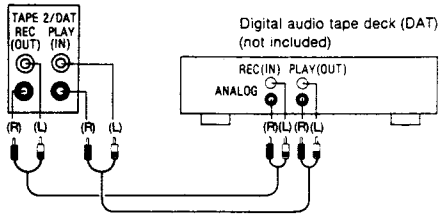
Ⓕ "TAPE 1" terminals

Connect to a first tape deck.

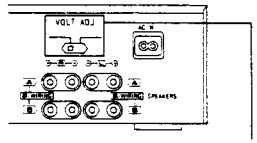


Ⓖ "TAPE 2/DAT" terminals

Connect to a second tape deck or a digital audio tape deck (DAT).



To set the power voltage



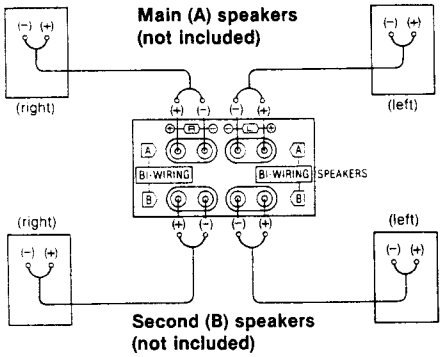
Set the voltage selector to the voltage setting for the area in which the unit will be used. [Use a minus (−) screwdriver]
For (EG), (EB), (EO), (GN) areas
Set the voltage setting to "230 V" or "240 V".
For others
Set the voltage setting to "110 V–127 V" or "220 V–240 V".

Note:
Note that this unit will be seriously damaged if this setting is not made correctly.

To connect to speakers

One pair of speakers can be connected to the "A" terminals of this unit and one pair to the "B" terminals, or only one pair of bi-wired speakers can be connected to all terminals.

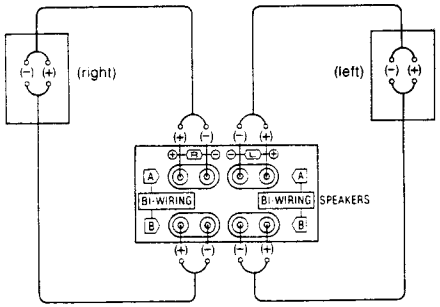
To connect main and/or second speakers



■ Load impedance

- When only the "A" or only the "B" terminals are used: 4 – 16 ohms
- When both the "A" and the "B" terminals are used simultaneously: 8 – 16 ohms

To connect bi-wired speakers (not included)



Note: Connect only bi-wired speakers in this way.

■ Load impedance

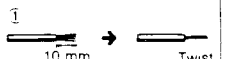
When bi-wired speakers are used: 4 – 16 ohms

■ Bi-wiring

The treble range and the bass range of the speakers are connected to the speaker terminals of the amplifier by using two speaker connection cords separately for each.
As a result of making connections in this way, sound can be reproduced with much greater nuance and detail, with the feelings of air oscillation and deepness of sound provided by an input source that suppresses reciprocal band-range interference.
(Refer to the operating instructions of the speakers.)

To connect cords to terminals

1. Strip off the outer covering, and twist the center conductor.



2. Turn completely to the left.

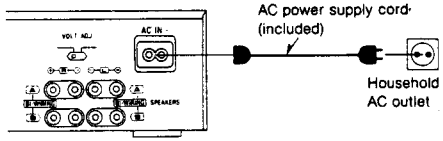
3. Insert the wire and turn completely to the right. Pull the cord to assure a proper connection.

Note: Be sure to only connect positive (+) cords to positive (+) terminals, and negative (–) cords to negative (–) terminals.

Note:
To prevent damage to circuitry, never short-circuit the plus (+) and minus (–) speaker wires.

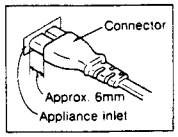
To connect the AC power supply cord (included)

Connect the AC power supply cord (included) after all other cables and cords are connected.



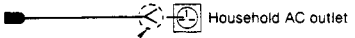
For Europe

Insertion of Connector
Even when the connector is perfectly inserted, depending on the type of inlet used, the front part of the connector may jut out as shown in the drawing.
However there is no problem using the unit.



Note:
The configuration of the AC power supply cord differs according to area.

For (EB) area



Fit a suitable plug to the AC power supply cord.

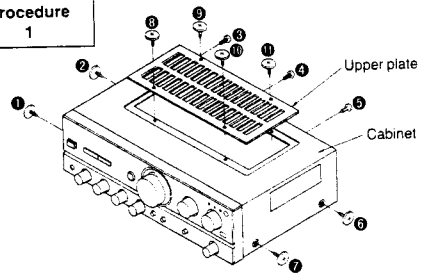
For areas except (EG), (EB), (EO) and (GN)
If the power plug will not fit your socket, use the power plug adaptor (included).

■ DISASSEMBLY INSTRUCTIONS

"ATTENTION SERVICER"
Some chassis components may have sharp edges. Be careful when disassembling and servicing.

Ref. No. 1 — **Removal of the cabinet**

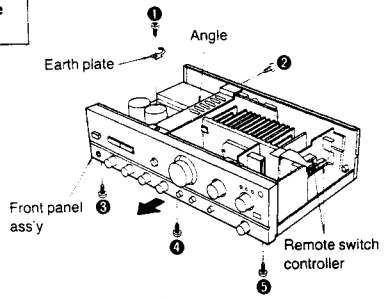
Procedure 1



1. Remove the 7 screws (❶~❼).
2. Remove the 4 screws (❽~⓫). (For EB, EO areas)
3. Remove the upper plate. (For EB, EO areas)

Ref. No. 2 — **Removal of the front panel ass'y**

Procedure 1→2

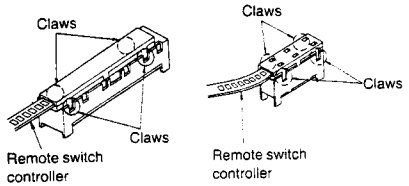


1. Remove the remote switch controller.
2. Remove the 5 screws (❶~❺).
3. Remove the earth plate and angle.
4. Remove the front panel ass'y in the direction of arrow.

■ Removal of the remote switch controller

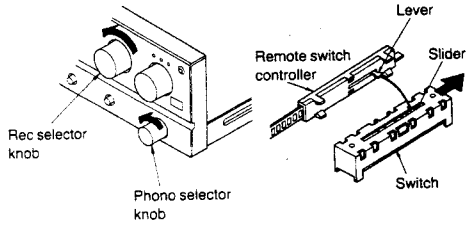
- Remove the 4 claws.

S102 (REC SELECTOR) **S103 (PHONO SELECTOR)**



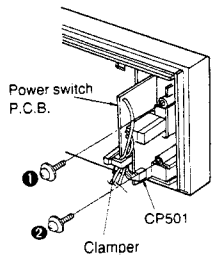
■ Replacing of the remote switch controller

1. Turn the selector knobs to the arrows.
2. Put the switch slider of switch to end and put in the remote switch controller.



Ref. No. 3 — **Removal of the power switch P.C.B.**

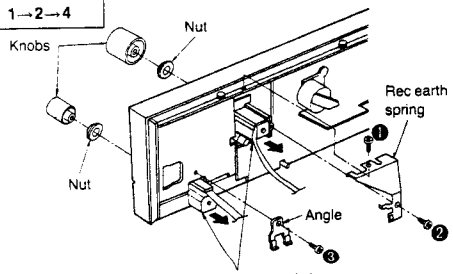
Procedure 1→2→3



1. Remove the 1 connector (CP501).
2. Release the cables from code clamper.
3. Remove the 2 screws (❶, ❷).

Ref. No. 4 — **Removal of the remote switch controller**

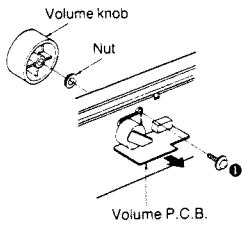
Procedure 1→2→4



1. Pull out the 2 knobs.
2. Remove the 2 nuts.
3. Remove the 3 screws (❶~❸).
4. Remove the rec earth spring and angle.
5. Remove the remote switch controller in the direction of arrow.

Ref. No. 5 — Removal of the volume P.C.B.

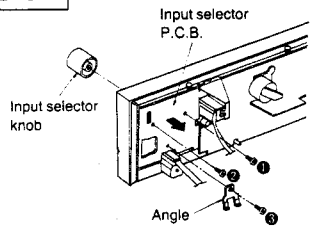
Procedure 1→2→5



1. Pull out the volume knob.
2. Remove the nut.
3. Remove the 1 screw (❶).
4. Remove the volume P.C.B. in the direction of arrow.

Ref. No. 6 — Removal of the input selector P.C.B.

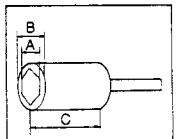
Procedure 1→2→6



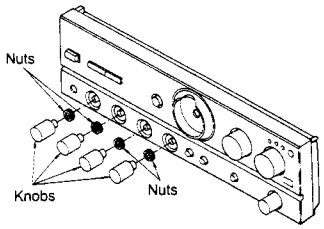
1. Pull out the input selector knob.
2. Remove the 3 screws (❶~❸).
3. Remove the angle.
4. Remove the input selector P.C.B. in the direction of arrow.

Ref. No. 7 — Removal of the operation P.C.B.

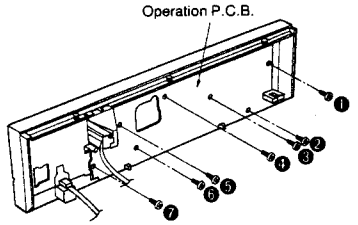
Procedure 1→2→3→5→7



A: 11 mm
B: 16 mm
C: longer than 22 mm
•Use a wrench of the dimensions shown in the illustration above to remove nuts.



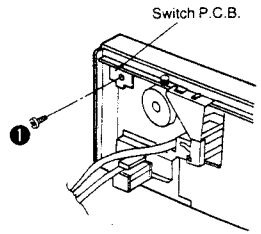
1. Pull out the 4 knobs.
2. Remove the 4 nut.



3. Remove the 7 screws (❶~❼).

Ref. No. 8 — Removal of the switch P.C.B.

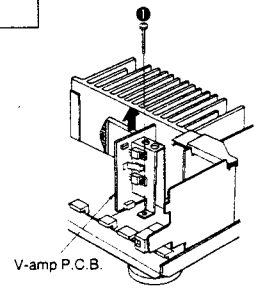
Procedure 1→2→6→8



•Remove the 1 screw (❶).

Ref. No. 9 — Removal of the V-amp P.C.B.

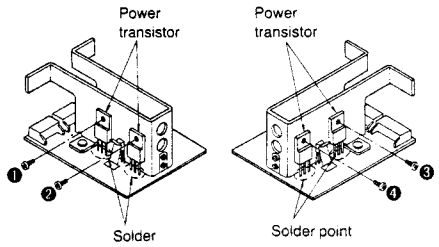
Procedure 1→9



1. Remove the 1 screw (❶).
2. Remove the V-amp P.C.B. in the direction of arrow.

Ref. No. 10 — Removal of the power transistor

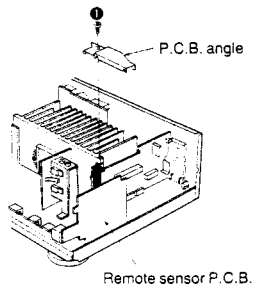
Procedure 1→9→10



1. Unsolder the power transistor.
2. Remove the 4 screws (❶~❹).
•When mounting power transistor, apply silicon thermal compound (RFKX0002) to the rear of the power transistor.

Ref. No. 11 — Removal of the remote sensor P.C.B.

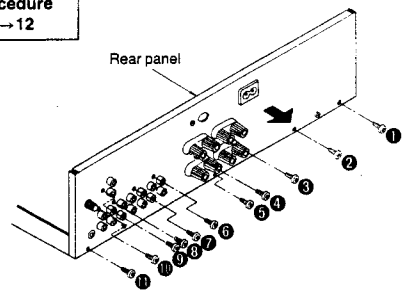
Procedure 1→2→11



1. Remove the 1 screw (❶).
2. Remove the P.C.B. angle.
3. Remove the remote sensor P.C.B. in the direction of arrow.

Ref. No. 12 — Removal of the rear panel

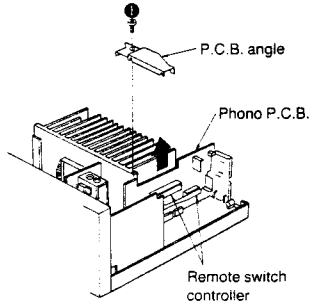
Procedure 1→12



1. Remove the 11 screws (❶~⓫).
2. Remove the rear panel in the direction of arrow.

Ref. No. 13 — Removal of the phono P.C.B.

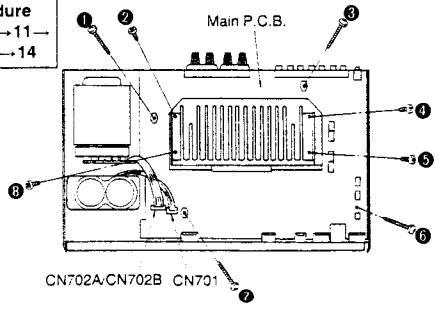
Procedure 1→12→13



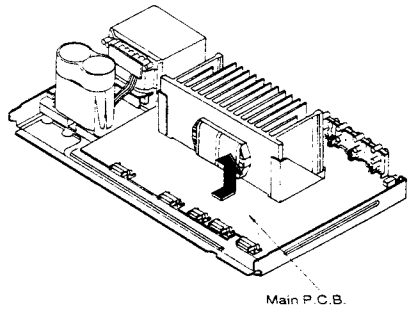
1. Remove the 1 screw (❶).
2. Remove the P.C.B. angle.
3. Remove the remote switch controller.
4. Remove the phono P.C.B. in the direction of arrow.

Ref. No. 14 — Removal of the main P.C.B.

Procedure 1→2→9→11→12→13→14



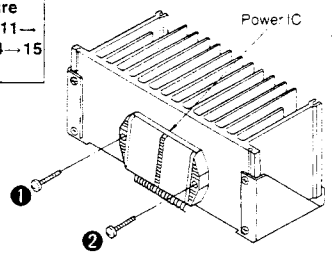
1. Remove the 1 connector (CN701).
2. Remove the 1 flat cable (CN702A/CN702B).
3. Remove the 8 screws (❶~❽).



4. Remove the main P.C.B. in the direction of arrow.

Ref. No. 15	Removal of the power IC

Procedure
1→2→9→11→12→13→14→15

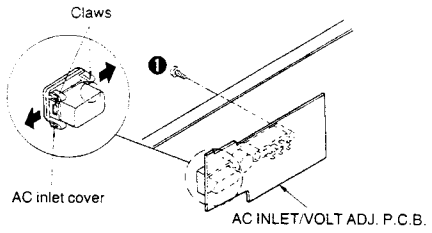


1. Unsolder the power IC.
2. Remove the 2 screws (❶, ❷).

- When mounting the power IC and heat sink, apply silicon thermal compound (RFKX0002 or equivalent) to the rear of the power IC.

Ref. No. 16	Removal of the AC INLET/VOLT ADJ. P.C.B.

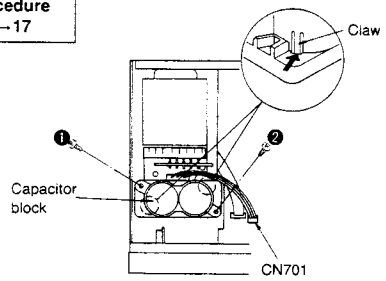
Procedure
1→12→16



1. Remove the 1 screw (❶).
2. Release the 2 claws of AC inlet cover.

Ref. No. 17	Removal of the capacitor block

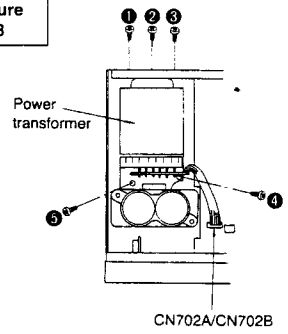
Procedure
1→17



1. Remove the 1 connector (CN701).
2. Remove the 2 screws (❶, ❷).
3. Release the 2 claws.

Ref. No. 18	Removal of the power transformer

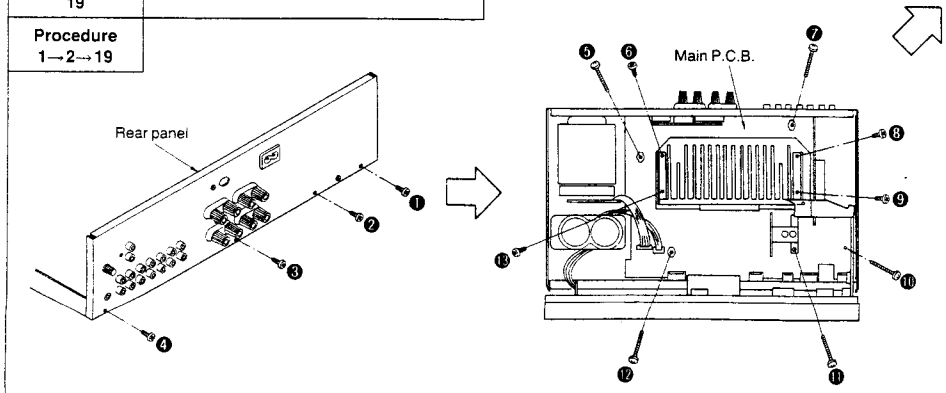
Procedure
1→18



1. Remove the 1 flat cable (CN702A/CN702B).
2. Remove the 5 screws (❶~❺).

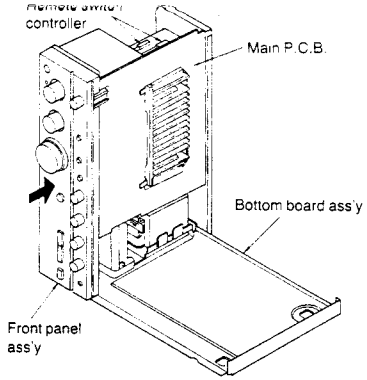
Ref. No. 19	Check of the main P.C.B.

Procedure
1→2→19



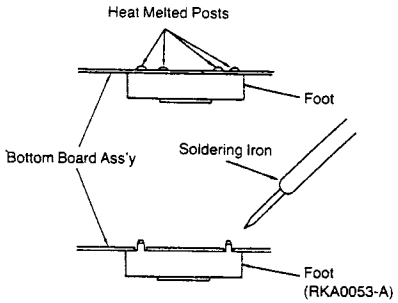
1. Remove the 4 screws (❶~❹).
2. Remove the 9 screws (❺~⓭).

3. Remove the bottom board ass'y.
4. Reinstall the front panel ass'y to the main P.C.B. and place the unit as shown right.
5. Reinstall the remote switch controller to the switch.

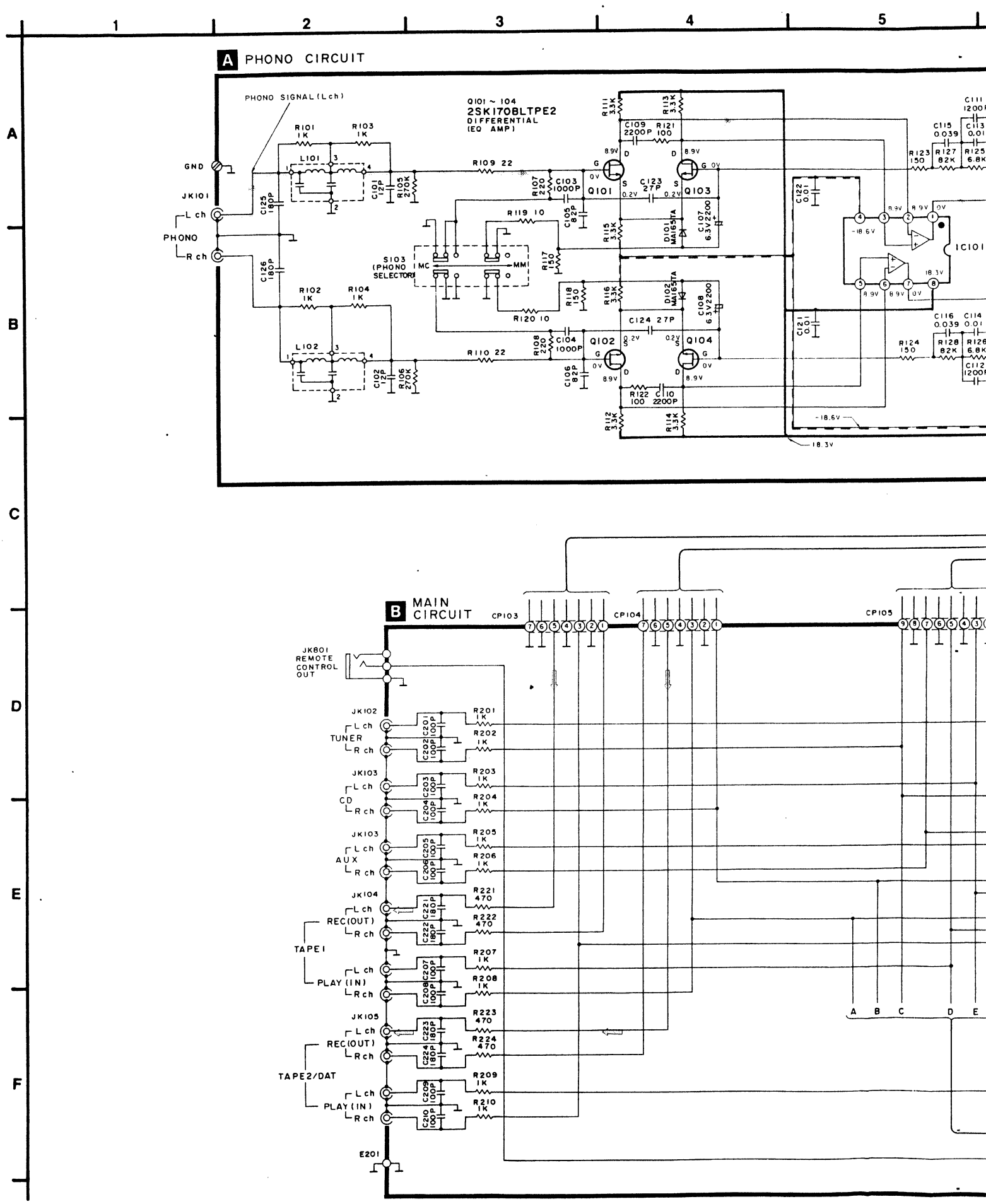


●REPLACEMENT OF THE FOOT

1. Remove the 4 heat melted posts on the bottom board ass'y with a pair of nippers or similar tool.
2. To replace the foot (RKA0053-A) on the bottom board ass'y, melt the 4 posts with a soldering iron.

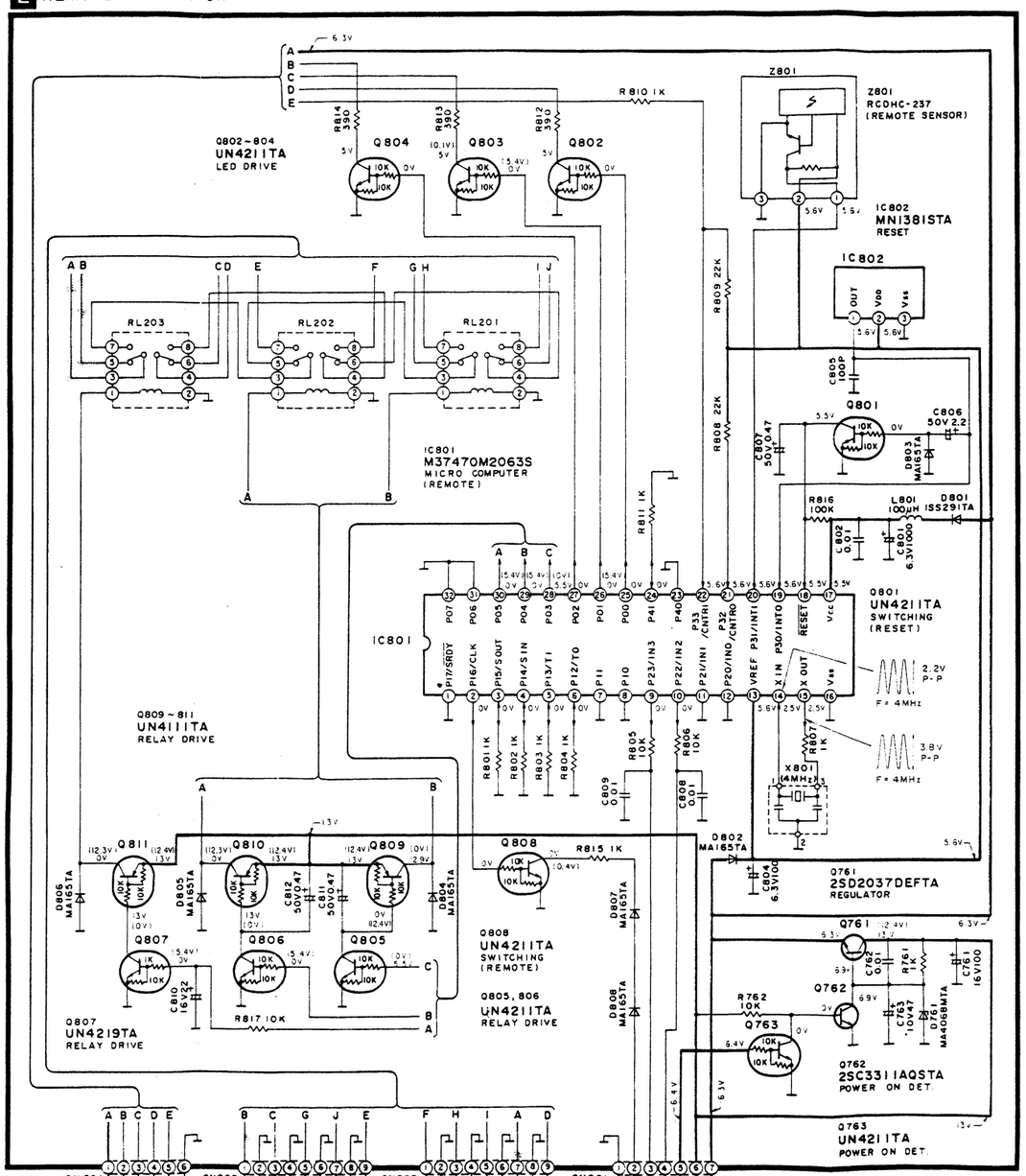


■ SCHEMATIC DIAGRAM (Parts list on pages 29~32.)



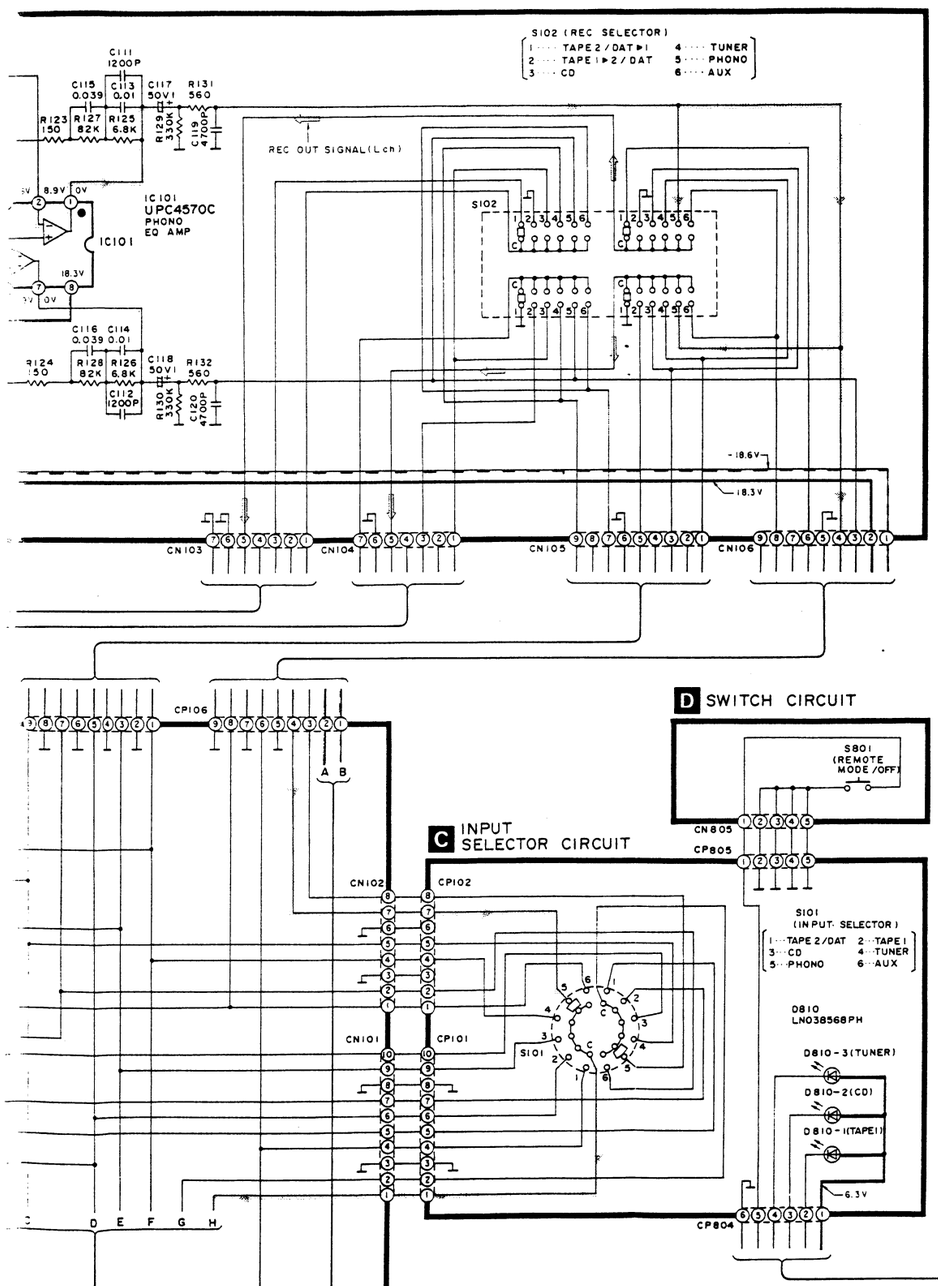
6 7 8 9 10 11 12 13 14

E REMOTE SENSOR CIRCUIT



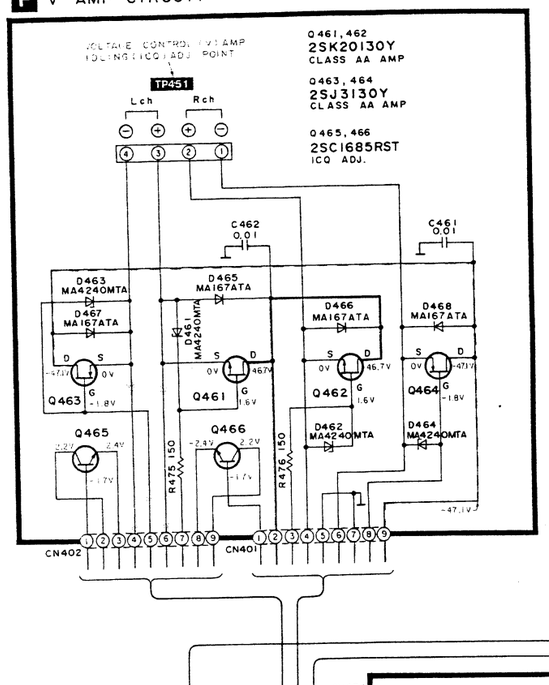
D SWITCH CIRCUIT

C INPUT SELECTOR CIRCUIT

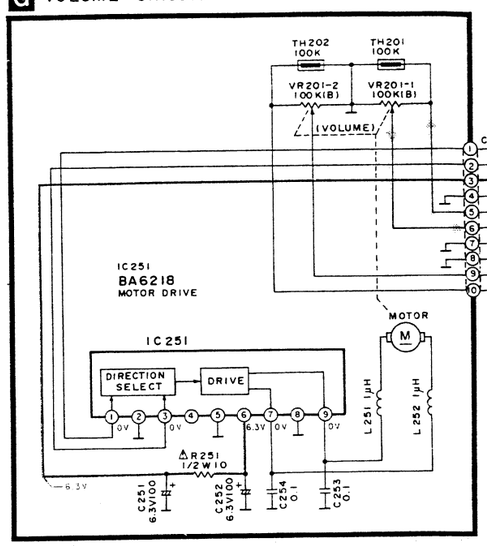


15 16 17 18 19 20 21 22 23 24

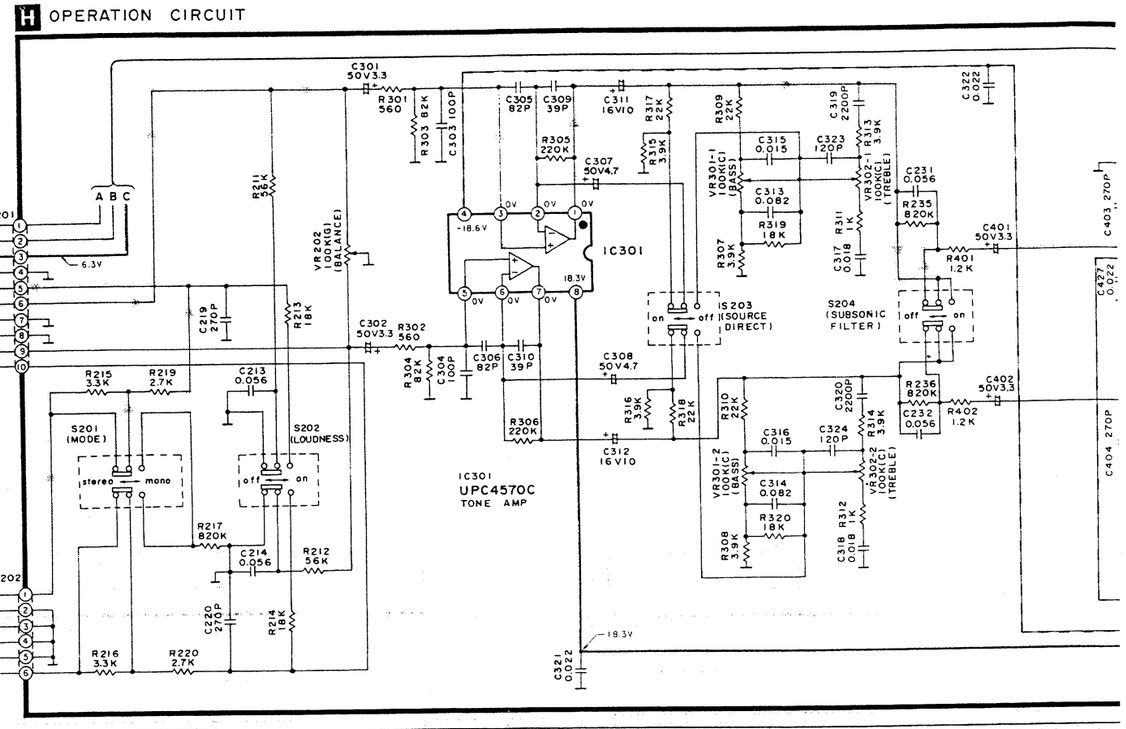
F V-AMP CIRCUIT

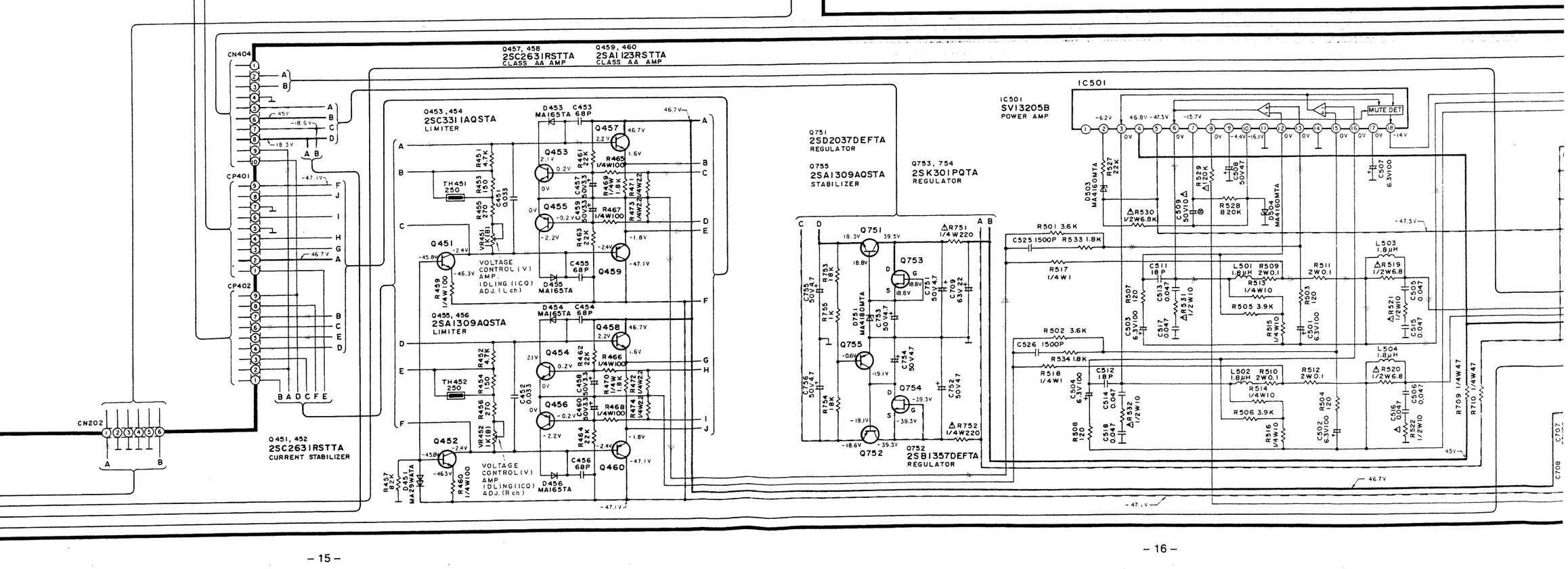


G VOLUME CIRCUIT

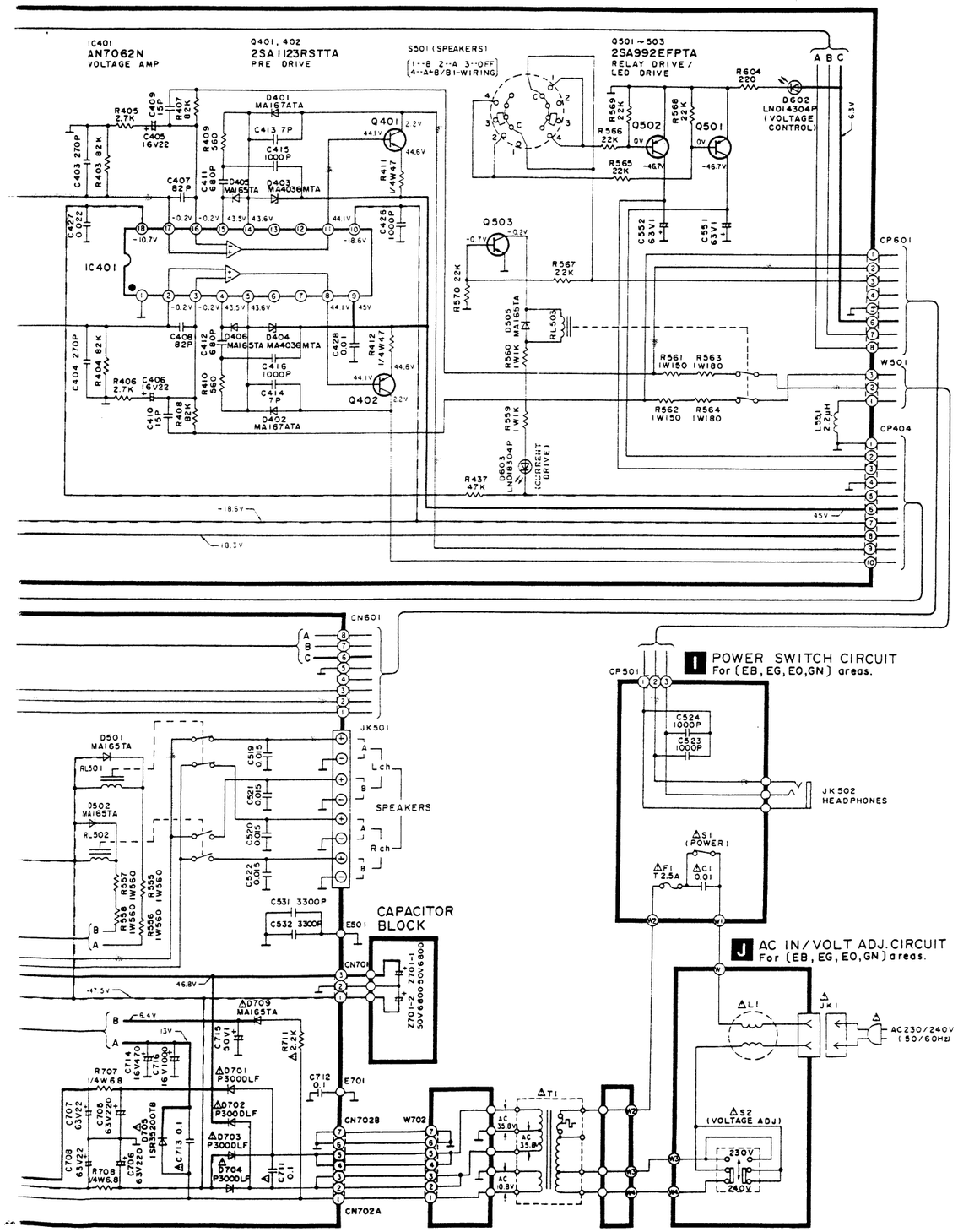


H OPERATION CIRCUIT





25 26 27 28 29 30 31 32 33 34



Notes:

- •S1 : Power switch in **"ON"** position. (POWER) (▟...OFF, ▁...ON)
- •S2 : Voltage select switch in **"240 V"** position. (VOLT ADJ) for (EG) (EB) (EO) (GN) areas
  Voltage select switch in **"110 V–127 V"** position. (VOLT ADJ) for (GC) area
- •S101 : Input select switch in **"PHONO"** position. (INPUT SELECT)
- •S102 : Rec select switch in **"TAPE 2/DAT ▶ 1"** position. (REC SELECTOR)
- •S103 : Phono cartridge select switch in **"MC"** position. (PHONO SELECTOR)
- •S201 : Mode select switch in **"STEREO"** position. (MODE)
- •S202 : Loudness switch in **"OFF"** position. (LOUDNESS)
- •S203 : Source direct switch in **"ON"** position. (SOURCE DIRECT)
- •S204 : Subsonic filter switch **"OFF"** position. (SUBSONIC FILTER)
- •S501 : Speaker select switch in **"OFF"** position. (SPEAKERS)
- •S801 : Remote control input erase switch. (OFF)

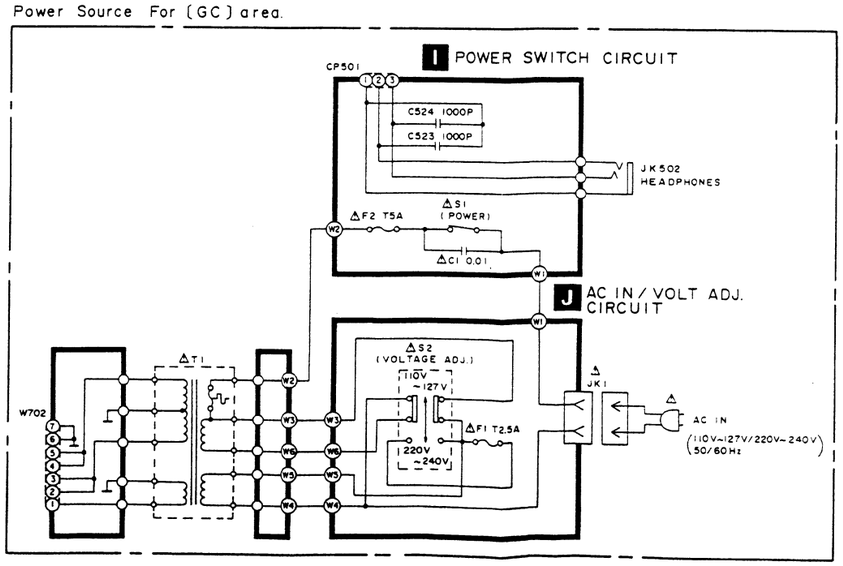
- •Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester. No mark: Power ON ( ) Indicated voltage: When D810-2 is lighting up
- •Important safety notice:
  Components identified by ⚠ mark have special characteristics important for safety.
  Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

- •This schematic diagram may be modified at any time with the development of new technology.

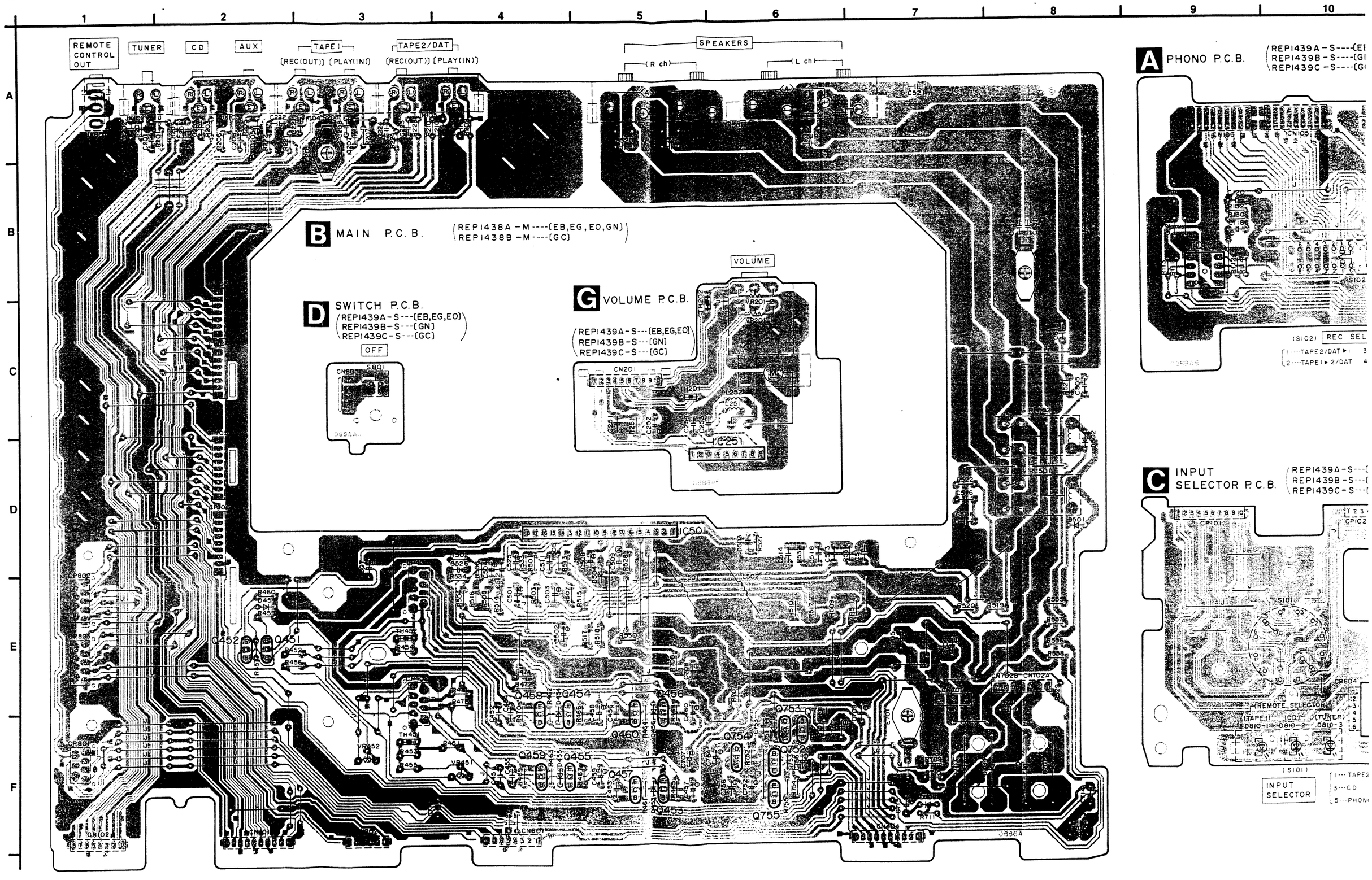
- •**Caution!**
  IC and LSI are sensitive to static electricity.
  Secondary trouble can be prevented by taking care during repair.
  Cover the parts boxes made of plastics with aluminum foil.
  Ground the soldering iron.
  Put a conductive mat on the word table.
  Do not touch the legs of IC or LSI with the fingers directly.

- •**Voltage and signal line**
  ——— : Positive voltage line.
  – – – : Negative voltage line.
  ▨▨▨ : Phono signal line.
  ⟹ : Recording output signal line.

Power Source For (GC) area.



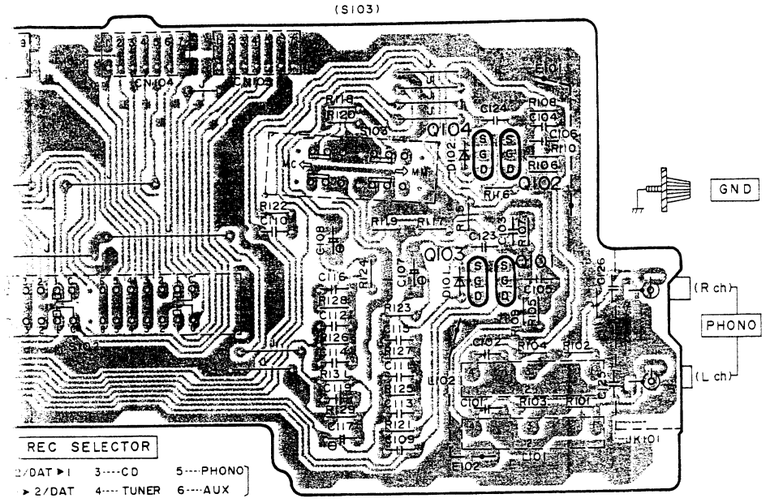
■ PRINTED CIRCUIT BOARD DIAGRAM (Parts list on pages 29~32.)



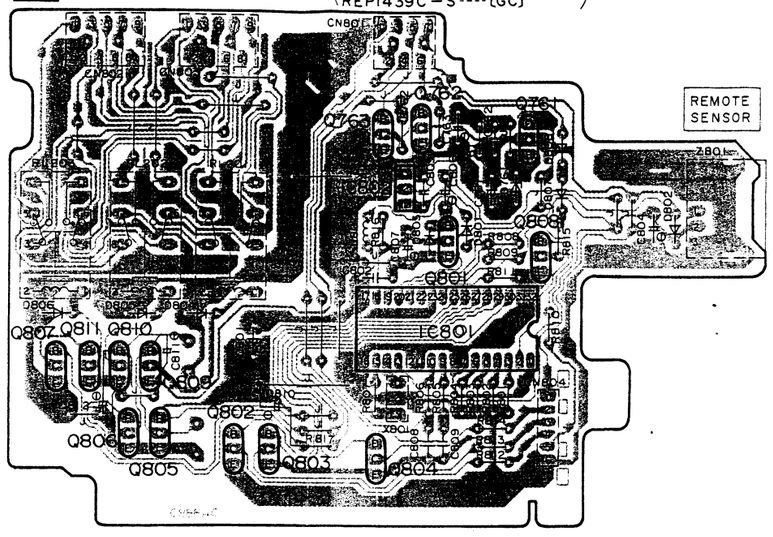
10 11 12 13 14 15 16 17 18 19 20

)-S----(EB,EG,EO)
)-S----(GN)
)-S----(GC)

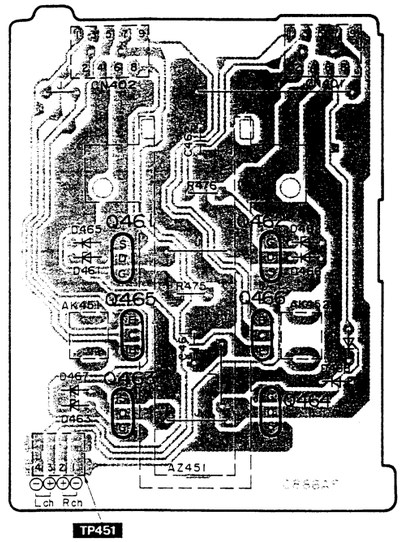
PHONO SELECTOR
(S103)



E REMOTE SENSOR P.C.B. (REPI439A-S----(EB,EG,EO) REPI439B-S----(GN) REPI439C-S----(GC)



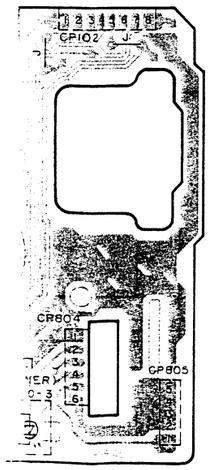
F V-AMP P.C.B (REPI439A-S---(EB,EG,EO) REPI439B-S---(GN) REPI439C-S---(GC)



TP451

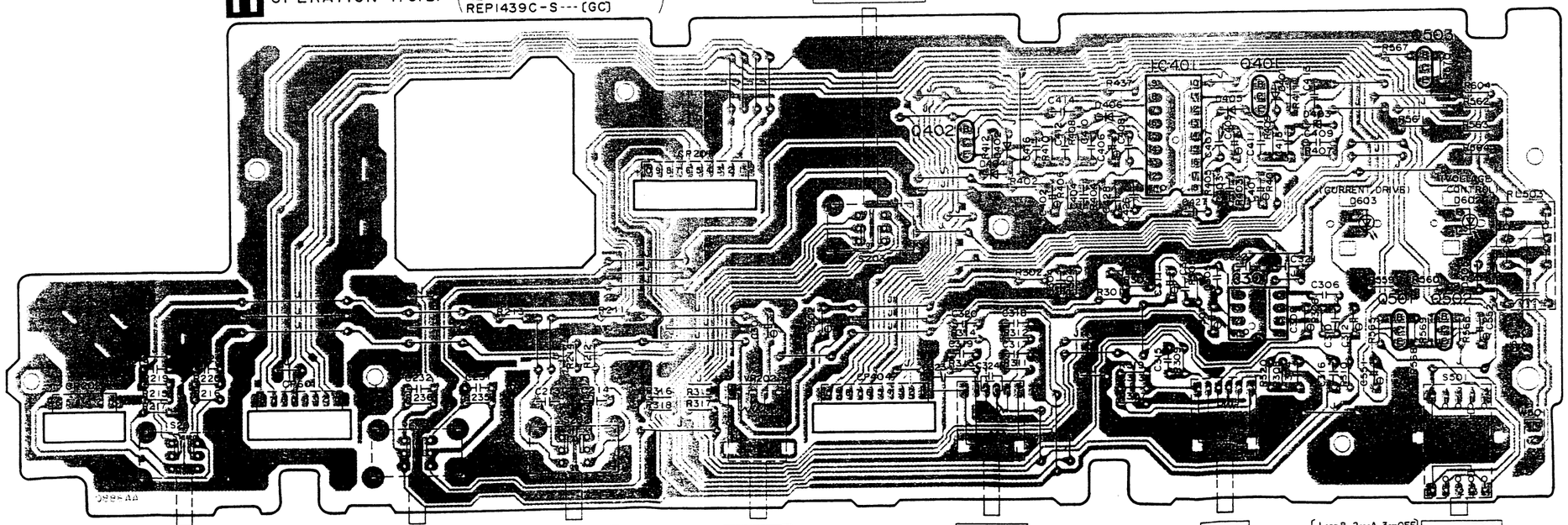
VOLTAGE CONTROL (V) AMP.
IDLING (ICQ) ADJ.

39A-S---(EB,EG,EO)
39B-S---(GN)
39C-S---(GC)



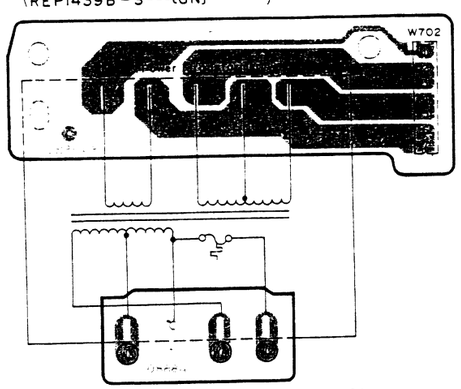
1---TAPE2/DAT 2---TAPE1
3---CD 4---TUNER
5---PHONO 6---AUX

H OPERATION P.C.B. (REPI439A-S---(EB,EG,EO) REPI439B-S---(GN) REPI439C-S---(GC)

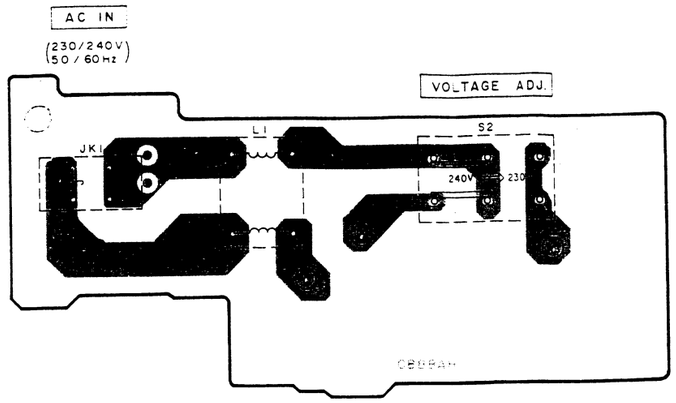


21 22 23 24 25 26 27 28 29 30

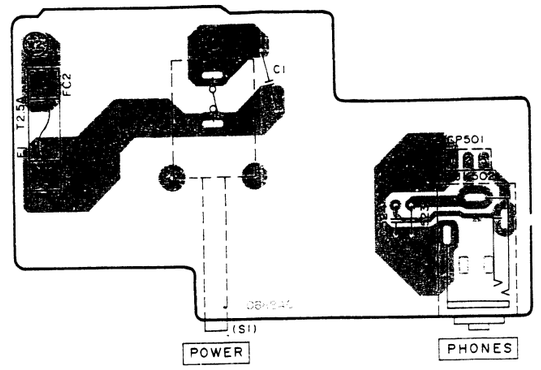
(REPI439A-S---(EB,EG,EO)
REPI439B-S---(GN))



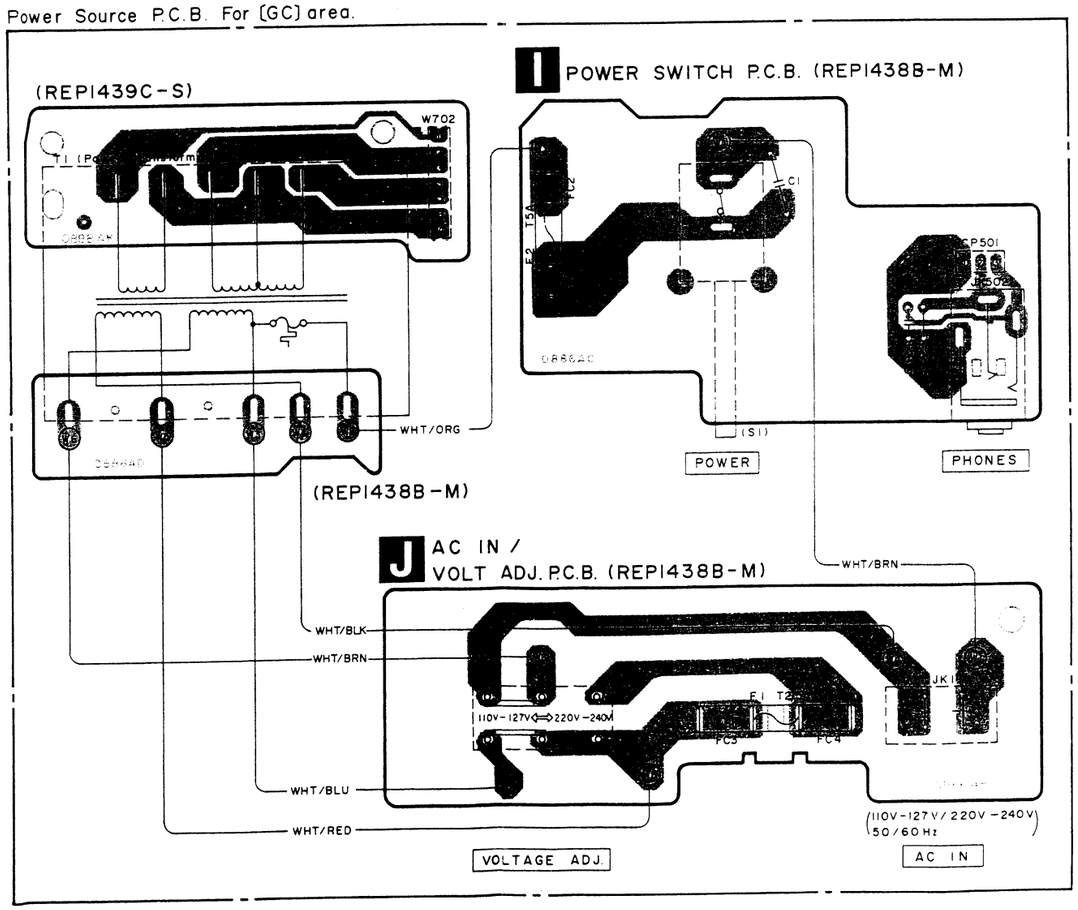
J AC IN/VOLT ADJ. P.C.B. For (EB,EG,EO,GN) areas. (REPI439A-S---(EB,EG,EO) REPI439B-S---(GN))



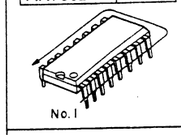
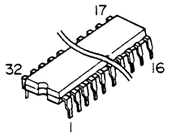
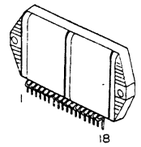
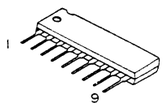
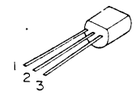
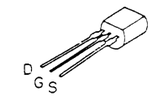
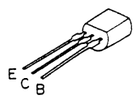
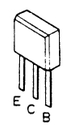
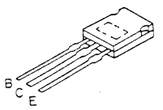
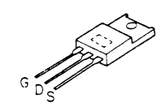
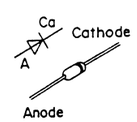
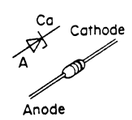
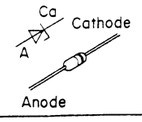
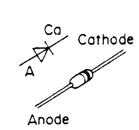
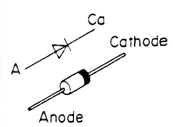
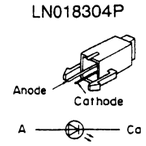
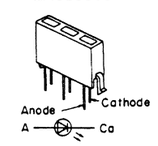
I POWER SWITCH P.C.B. For (EB,EG,EO,GN) areas. (REPI439A-S---(EB,EG,EO) REPI439B-S---(GN))



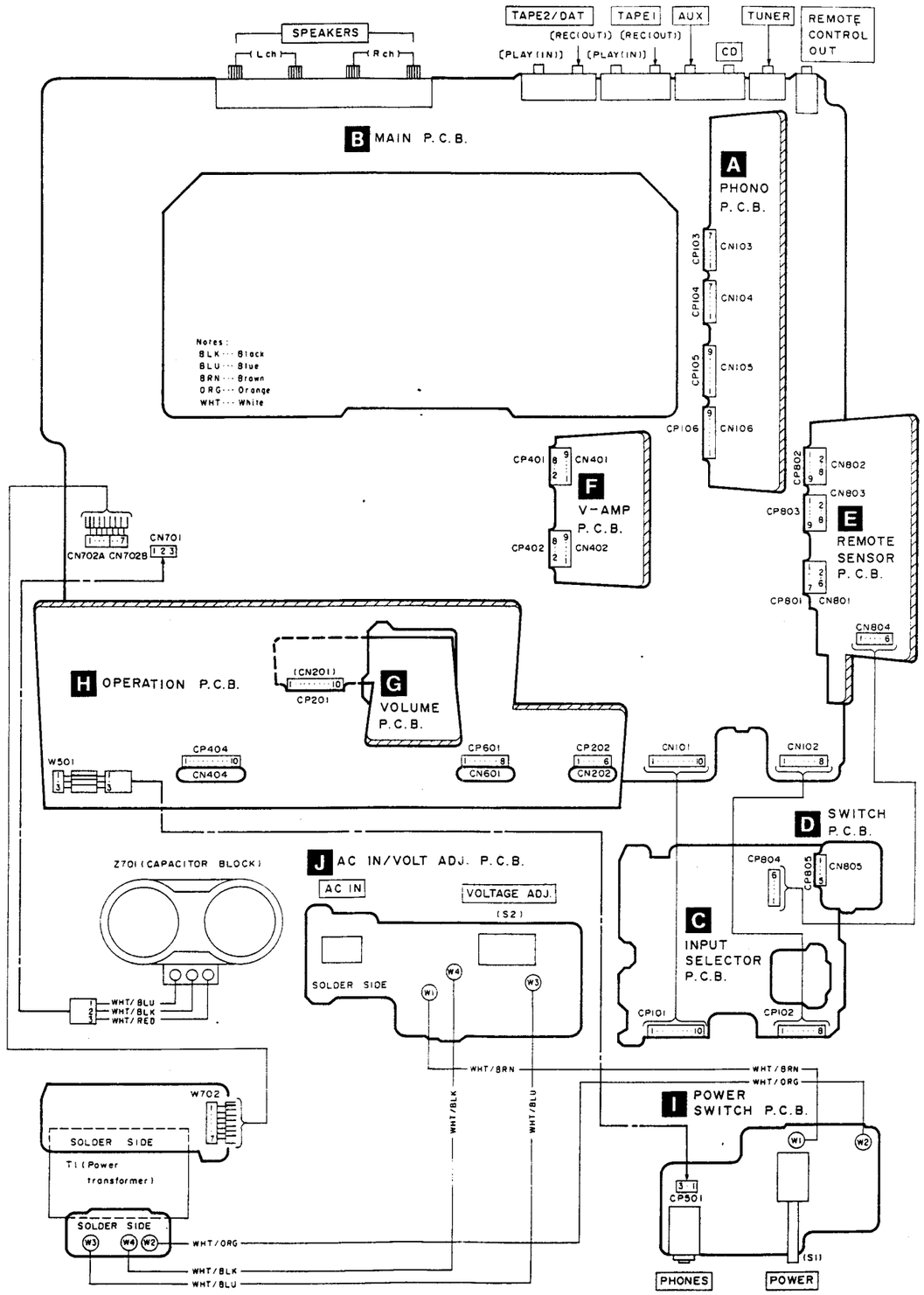
Power Source P.C.B. For (GC) area.



•Terminal guide of IC's, transistors and diodes

UPC4570C 8 Pin AN7062N 18 Pin 	M37470M2063S 	SVI3205B 	BA6218 	MN1381STA 	2SK170BLTPE2 2SK301PQTA 
	2SA992EFPTA 2SA1123RSTTA 2SC1685RST 2SC2631RSTTA		2SA1309AQSTA 2SC3311AQSTA UN4111TA UN4211TA UN4219TA		2SB1357DEFTA 2SD2037DEFTA 
	1SR35200TB MA165TA MA167ATA MA29WATA	MA4036MTA MA4068MTA 	MA4160MTA MA4180MTA MA4240MTA 	1SS291TA 	P300DLF 
LN014304P LN018304P 	LN038568PH 				

■ WIRING CONNECTION DIAGRAM



■ MEASUREMENTS AND ADJUSTMENTS

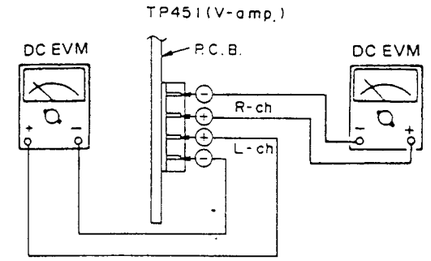
•ADJUSTMENT

Control positions and equipment used

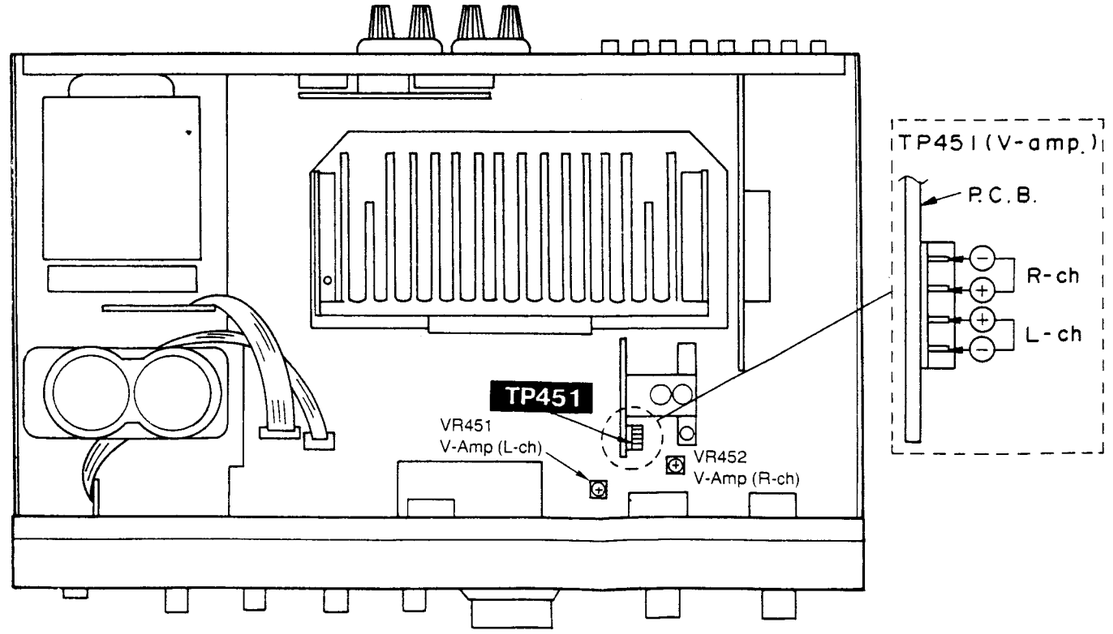
- •Volume knob ..... ∝ (Minimum)
- •Speaker selector ..... OFF
- •DC electronic voltmeter (EVM)

•VOLTAGE CONTROL (V) AMP. IDLING (ICQ) ADJUSTMENT

1. Test equipment connection is shown in figure. (Connect the DC EVM on both channels.)
2. Completely turn the (V) amp. adjusting volumes **(VR451, VR452)** counter-clockwise.
3. Turn on the set when it is cold, and about 8 sec. later, adjust **VR451** and **VR452** so that the voltage is **100±10 mV**.



•ADJUSTMENT POINTS

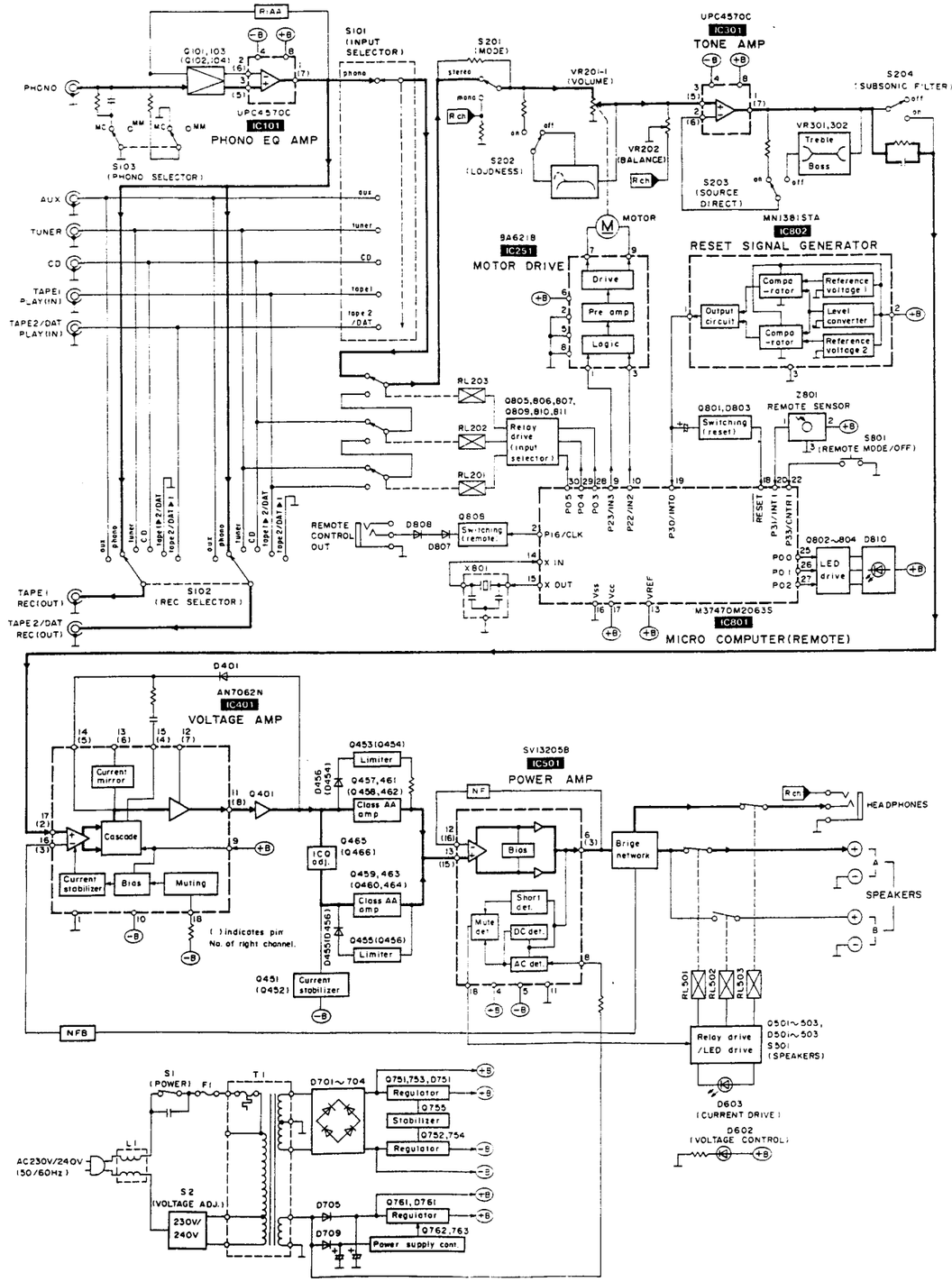


■ FUNCTIONS OF IC TERMINALS (IC801: M37470M2063S)

Pin No.	Terminal Name	I/O	Function
1	P17/$\overline{SRDY}$	—	Connected to GND.
2	P16/CLK	O	Remote control signal output.
3	P15/SOUT	—	Not used.
4	P14/SIN		
5	P13/TI		
6	P12/TO		
7	P11	—	Connected to GND.
8	P10		
9	P23/IN3	O	Level encoder volume control signal output.
10	P22/IN2		
11	P21/IN1	—	Connected to GND.
12	P20/IN0	—	
13	VREF	I	Reference voltage input.
14	X IN	I	Connected to ceramic oscillator.
15	X OUT	O	
16	V_{SS}	—	GND terminal.
17	V_{CC}	—	Power supply (+5 V).

Pin No.	Terminal Name	I/O	Function
18	$\overline{RESET}$	I	Reset signal input.
19	P30/INTO	I	Back-up detector signal input.
20	P31/INTI	I	Remote control receiving signal input.
21	P32/CNTRO	I	POWER switch input.
22	P33/CNTRI	I	SELECTOR MODE switch input.
23	P40	—	Connected to GND.
24	P41	—	
25	P00	O	SELECTOR LED (TUNER) drive.
26	P01	O	SELECTOR LED (CD) drive.
27	P02	O	SELECTOR LED (TAPE 1) drive.
28	P03	O	SELECTOR RELAY 1 output.
29	P04	O	SELECTOR RELAY 2 output.
30	P05	O	SELECTOR RELAY 3 output.
31	P06	—	Connected to GND.
32	P07		

■ BLOCK DIAGRAM



■ REPLACEMENT PARTS LIST

Notes: *Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety.
Furthermore, special parts which have purposes of fire-retardant resistors, high-quality sound capacitors, low-noise resistors, etc. are used.
When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.
*The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)
Parts without these indications can be used for all areas.
*Remote Control Assy:
Supply period for three years from termination of production.

Ref. No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUIT(S)	
IC101	UPC4570C	I. C. PHONO EQ AMP.	
IC251	BA6218	I. C. MOTOR DRIVE	
IC301	UPC4570C	I. C. TONE AMP.	
IC401	AN7062N	I. C. VOLTAGE AMP.	
IC501	SVI3205B	I. C. POWER AMP.	
IC801	M37470M2063S	I. C. MICRO COMPUTER	
IC802	MN1381STA	I. C. RESET	
		TRANSISTOR(S)	
Q101-104	2SK170BLTPE2	TRANSISTOR	
Q401, 402	2SA1123RSTTA	TRANSISTOR	
Q451, 452	2SC2631RSTTA	TRANSISTOR	
Q453, 454	2SC3311A-Q	TRANSISTOR	
Q455, 456	2SA1309A-R	TRANSISTOR	
Q457, 458	2SC2631RSTTA	TRANSISTOR	
Q459, 460	2SA1123RSTTA	TRANSISTOR	
Q461, 462	2SK2013OY	TRANSISTOR	
Q463, 464	2SJ313OY	TRANSISTOR	
Q465, 466	2SC1685RST	TRANSISTOR	
Q501-503	2SA992EFPTA	TRANSISTOR	
Q751	2SD2037DEFTA	TRANSISTOR	
Q752	2SB1357DEFTA	TRANSISTOR	
Q753, 754	2SK301PQTA	TRANSISTOR	
Q755	2SA1309A-R	TRANSISTOR	
Q761	2SD2037DEFTA	TRANSISTOR	
Q762	2SC3311A-Q	TRANSISTOR	
Q763	UN4211	TRANSISTOR	
Q801-806	UN4211	TRANSISTOR	
Q807	UN4219TA	TRANSISTOR	
Q808	UN4211	TRANSISTOR	
Q809-811	UN4111	TRANSISTOR	
		DIODE(S)	
D101, 102	MA165	DIODE	
D401, 402	MA167	DIODE	
D403, 404	MA4036MTA	DIODE	
D405, 406	MA165	DIODE	
D451	MA29WA	DIODE	
D453-456	MA165	DIODE	
D461-464	MA4240H	DIODE	
D465-468	MA167	DIODE	

Ref. No.	Part No.	Part Name & Description	Remarks
D501, 502	MA165	DIODE	
D503, 504	MA4160M	DIODE	
D505	MA165	DIODE	
D602	LN014304P	DIODE (LED)	
D603	LN018304P	DIODE (LED)	
D701-704	P300DLF	DIODE	⚠
D705	1SR35200TB	DIODE	⚠
D709	MA165	DIODE	⚠
D751	MA4180-M	DIODE	
D761	MA4068M	DIODE	
D801	1SS291TA	DIODE	
D802-808	MA165	DIODE	
D810	LN038568PH	DIODE (LED)	
		VARIABLE RESISTOR(S)	
VR201	EUWMHX001B15	V. R. VOLUME CONTROL	
VR202	EVJ02QFA2G15	V. R. BALANCE	
VR301, 302	EVJYA1FA2C15	V. R. BASS/TREBLE CONTROL	
VR451, 452	EVNDXAA00B13	V. R. ICQ ADJ.	
		THERMISTOR(S)	
TH201, 202	ERTD2ZHL104T	THERMISTOR	
TH451, 452	ERTD2ZGL251T	THERMISTOR	
		COMPONENT COMBINATION(S)	
Z701	ECED1HT682P	CAPACITOR BLOCK	
Z801	RCDHC-237	REMOTE SENSER	
		COIL(S)	
L1	SLQZ650MH49	COIL	(EG, EB, EO, GN) ⚠
L101, 102	SLM1Z33	COIL	
L251, 252	ELEXT1R0KA9	COIL	
L501-504	SLQY18G-10	COIL	
L551	ELEPK2R2MA	COIL	
L801	ELEXT101KA9	COIL	
		TRANSFORMER(S)	
T1	RTP1P5B004	POWER TRANSFORMER	⚠ (EG, EB, EO, GN)
T1	RTP1P5E007	POWER TRANSFORMER	⚠ (GC)
		OSCILLATOR(S)	

Ref. No.	Part No.	Part Name & Description	Remarks
X801	EF0GC4004A4	OSCILLATOR	
		FUSE(S)	
F1	XBA2C25TB0	FUSE	⚠
F2	XBA2C50TB0	FUSE	⚠ (GC)
		SWITCH(ES)	
S1	ESB8249V	SW, POWER	⚠
S2	ESD26200A	SW, VOLTAGE SELECTOR	⚠
S101	RSR6B002-J	SW, INPUT SELECTOR	
S102	RSS6D001	SW, REC. SELECTOR	
S103	RSS2D006-A	SW, PHONO SELECTOR	
S201	ESB68137	SW, MODE	
S202	ESB68113	SW, LOUDNESS	
S203, 204	ESB68137	SW, SOURCE DIRECT/SUBSONIC	
S501	RSR4B004-A	SW, SPEAKER SELECTOR	
S801	EVQ21405R	SW, (REMOTE MODE) OFF	
		CONNECTOR(S)	
CN101	RJU003K010M1	SOCKET(10P)	
CN102	RJU003K008M1	SOCKET(8P)	
CN103	RJU057W007	SOCKET(7P)	
CN104	RJU057W007	SOCKET(7P)	
CN105	RJU057W009	SOCKET(9P)	
CN106	RJU057W009	SOCKET(9P)	
CN201	RJU003K010M1	SOCKET(10P)	
CN202	RJU003K006M1	SOCKET(6P)	
CN401, 402	RJU063W09T	SOCKET(9P)	
CN404	RJU003K010M1	SOCKET(10P)	
CN601	RJU003K008M1	SOCKET(8P)	
CN701	RJP1A3303	CONNECTOR(3P)	
CN801	RJU063W07T	SOCKET(7P)	
CN802, 803	RJU063W09T	SOCKET(9P)	
CN804	RJU003K006M1	SOCKET(6P)	
CN805	SJS50581BB	SOCKET(5P)	
CN702A	RJS1A1704	SOCKET(4P)	
CN702B	RJS1A1703	SOCKET(3P)	
CP101	RJT003K010-1	CONNECTOR(10P)	
CP102	RJT003K008-1	CONNECTOR(8P)	
CP103, 104	RJT057W007-1	CONNECTOR(7P)	
CP105, 106	RJT057W009-1	CONNECTOR(9P)	
CP201	RJT003K010-1	CONNECTOR(10P)	
CP202	RJT003K006-1	CONNECTOR(6P)	
CP401, 402	RJT063W09T	CONNECTOR(9P)	
CP404	RJT003K010-1	CONNECTOR(10P)	
CP501	SJT30345JQ	CONNECTOR(3P)	
CP601	RJT003K008-1	CONNECTOR(8P)	
CP801	RJT063W07T	CONNECTOR(7P)	

Ref. No.	Part No.	Part Name & Description	Remarks
CP802, 803	RJT063W09T	CONNECTOR(9P)	
CP804	RJT003K006-1	CONNECTOR(6P)	
CP805	SJT30549BB1	CONNECTOR(5P)	
		EARTH TERMINAL(S)	
AK451, 452	SUS227	TRANSISTOR SPRING	
E101, 102	SMC1009	SHIELD PLATE	
E201	SNE1004-1	GND PLATE	
E501	SNE1004-1	GND PLATE	
E701	SNE1004-1	GND PLATE	
		FUSE HOLDER(S)	
FC1, 2	EYF52BC	FUSE HOLDER	⚠
FC3, 4	SJT388	FUSE HOLDER	⚠ (GC)
		RELAY(S)	
RL201-203	RSY0014M-0	RELAY	
RL501, 502	RSY0013-0	RELAY	
RL503	RSY0014M-0	RELAY	
		JACK(S)	
JK1	SJS9231-1B	AC INLET	⚠ (EG, EB, EO, GC)
JK1	SJS9234B	AC INLET	⚠ (GN)
JK101	SJF3057-9N	PHONO JACK	
JK102	SJF3068N	TUNER	
JK103	SJF3069N	CD/AUX	
JK104	SJF3069N	TAPE1	
JK105	SJF3069N	TAPE2/DAT	
JK501	RJH4801-1	SPEAKER TERMINAL BOARD	
JK502	QJA0455ZC-A	HEADPHONES JACK	
JK801	RJJ33TR01	REMOTE CONTROL OUT	
		TEST POINT(S)	
TP451	RJU057W004	TEST POINT	

Notes : • Capacity values are in microfarads (uF) unless specified otherwise, P=Pico-farads(pF) F=Farads(F)
• Resistance values are in ohms, unless specified otherwise, 1K=1,000(OHM) , 1M=1,000k(OHM)

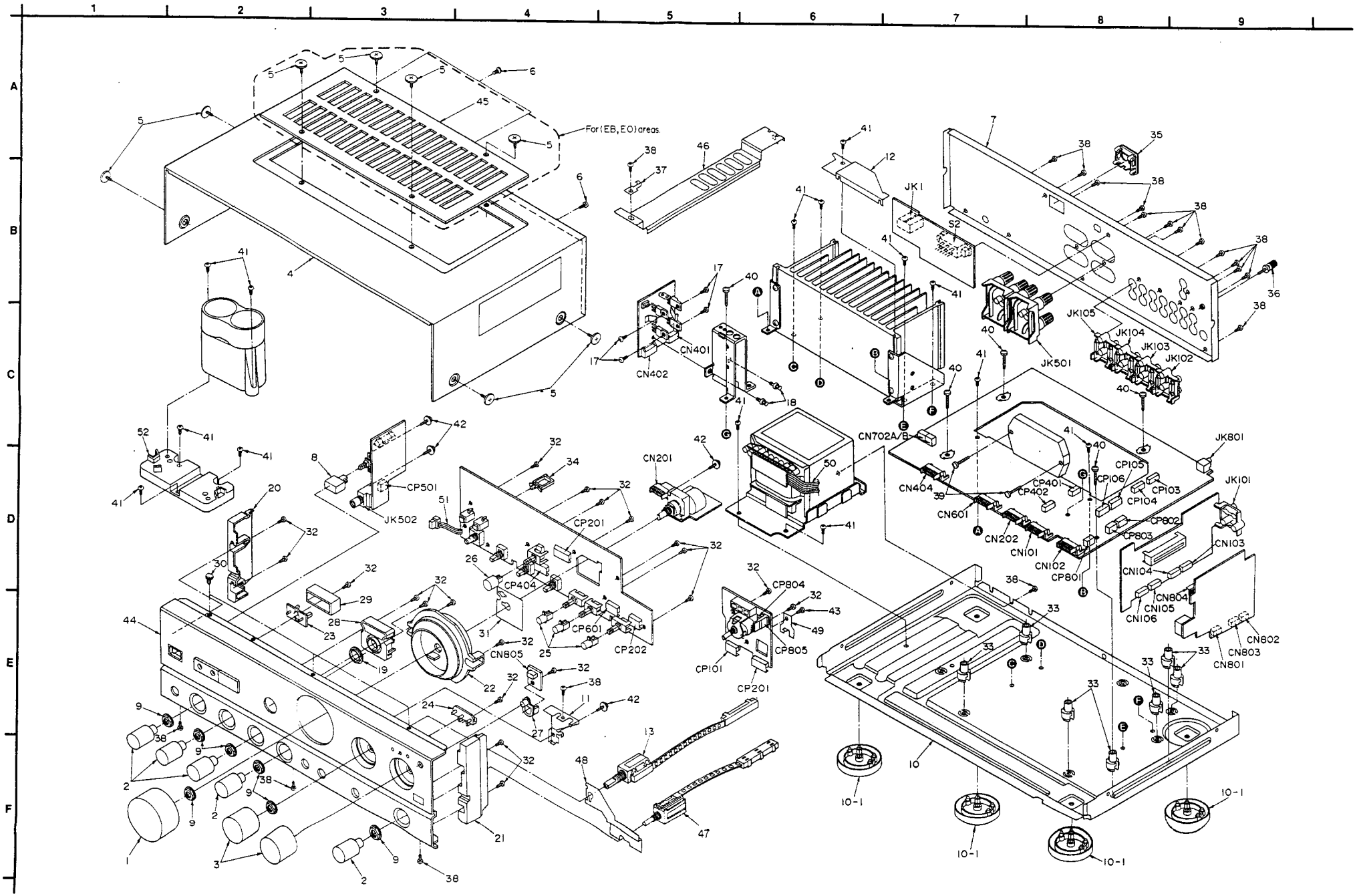
Ref. No.	Part No.	Values & Remarks
		RESISTORS
R101-104	ERDS2TJ102	1/4W 1K
R105, 106	ERDS2TJ274	1/4W 270K
R107, 108	ERDS2TJ221	1/4W 220
R109, 110	ERDS2TJ220T	1/4W 22
R111-116	ERDAS3G332T	1/4W 3.3K
R117, 118	ERDS2TJ151	1/4W 150
R119, 120	ERDS2TJ100	1/4W 10
R121, 122	ERDS2TJ101	1/4W 100
R123, 124	ERDS2TJ151	1/4W 150
R125, 126	ERDS2TJ682T	1/4W 6.8K
R127, 128	ERDS2TJ823T	1/4W 82K
R129, 130	ERDS2TJ334	1/4W 330K
R131, 132	ERDS2TJ561	1/4W 560
R201-210	ERDAS3G102T	1/4W 1K
R211, 212	ERDAS3G563T	1/4W 56K
R213, 214	ERDS2TJ183T	1/4W 18K
R215, 216	ERDS2TJ332	1/4W 3.3K
R217	ERDS2TJ824	1/4W 820K
R219, 220	ERDLS2VJ272T	1/4W 2.7K
R221-224	ERDS2TJ471	1/4W 470
R235, 236	ERDS2TJ824	1/4W 820K
R251	ERDS1FVJ100T	1/2W 10 ⚠
R301, 302	ERDAS3G561	1/4W 560
R303, 304	ERDS2TJ823T	1/4W 82K
R305, 306	ERDS2TJ224T	1/4W 220K
R307, 308	ERDS2TJ392T	1/4W 3.9K
R309, 310	ERDS2TJ223	1/4W 22K
R311, 312	ERDS2TJ102	1/4W 1K
R313, 314	ERDS2TJ392T	1/4W 3.9K
R315, 316	ERDAS3G392T	1/4W 3.9K
R317, 318	ERDAS3G223T	1/4W 22K
R319, 320	ERDS2TJ183T	1/4W 18K
R401, 402	ERDS2TJ122	1/4W 1.2K
R403, 404	ERDS2TJ823T	1/4W 82K
R405, 406	ERDAS3G272T	1/4W 2.7K
R407, 408	ERDAS3G823T	1/4W 82K
R409, 410	ERDS2TJ561	1/4W 560
R411, 412	ERDAF2VJ470T	1/4W 47
R437	ERDS2TJ473	1/4W 47K
R451, 452	ERDAF2VJ472T	1/4W 4.7K
R453, 454	ERDAF2VJ151T	1/4W 150
R455, 456	ERDAF2VJ271T	1/4W 270
R457	ERDS2TJ823T	1/4W 82K
R459, 460	ERDAF2VJ101T	1/4W 100
R461-464	ERDS2TJ223	1/4W 22K
R465-468	ERDAF2VJ101T	1/4W 100

Ref. No.	Part No.	Values & Remarks
R469, 470	ERDAF2VJ182T	1/4W 1.8K
R471-474	ERDAF2VJ2R2T	1/4W 2.2
R475, 476	ERDAF2VJ151T	1/4W 150
R501, 502	ERDS2TJ362T	1/4W 3.6K
R503, 504	ERDAF2VJ121T	1/4W 120
R505, 506	ERDS2TJ392T	1/4W 3.9K
R507, 508	ERDAF2VJ121T	1/4W 120
R509-512	EPF2EXKR10V	2W 0.1
R513-516	ERDAF2VJ100T	1/4W 10
R517, 518	ERDAF2VJ1R0T	1/4W 1
R519, 520	ERDS1FVJ6R8T	1/2W 6.8 ⚠
R521, 522	ERDS1FVJ100T	1/2W 10 ⚠
R527	ERDS2TJ223	1/4W 22K
R528	ERDS2TJ824	1/4W 820K
R529	ERDS2TJ124T	1/4W 120K ⚠
R530	ERDS1FVJ682T	1/2W 6.8K ⚠
R531, 532	ERDS1FVJ100T	1/2W 10 ⚠
R533, 534	ERDS2TJ182	1/4W 1.8K
R555-558	ERG1SJ561E	1W 560
R559, 560	ERG1SJ102E	1W 1K
R561, 562	ERG1SJ151E	1W 150
R563, 564	ERG1SJ181E	1W 180
R565-570	ERDS2TJ223	1/4W 22K
R604	ERDS2TJ221	1/4W 220
R707, 708	ERDAF2VJ6R8T	1/4W 6.8
R709, 710	ERDAF2VJ470T	1/4W 47
R711	ERDS2TJ222	1/4W 2.2K ⚠
R751, 752	ERDAF2VJ221T	1/4W 220 ⚠
R753, 754	ERDS2TJ183T	1/4W 18K
R755	ERDS2TJ102	1/4W 1K
R761	ERDS2TJ102	1/4W 1K
R762	ERDS2TJ103	1/4W 10K
R801-804	ERDS2TJ102	1/4W 1K
R805, 806	ERDS2TJ103	1/4W 10K
R807	ERDS2TJ102	1/4W 1K
R808, 809	ERDS2TJ223	1/4W 22K
R810, 811	ERDS2TJ102	1/4W 1K
R812-814	ERDS2TJ391	1/4W 390
R815	ERDS2TJ102	1/4W 1K
R816	ERDS2TJ104	1/4W 100K
R817	ERDS2TJ103	1/4W 10K
		CAPACITORS
C1	ECKWNS103ZVS	500V 0.01U ⚠
C101, 102	ECBT1H120J5	50V 12P
C103, 104	ECBT1H102KB5	50V 1000P
C105, 106	ECBT1H820KB5	50V 82P
C107, 108	ECAOJM222B	6.3V 2200U

Ref. No.	Part No.	Values & Remarks
C109, 110	ECKW1H222KB5	50V 2200P
C111, 112	ECQB1H122JF3	50V 1200P
C113, 114	ECQB1H103JF3	50V 0.01U
C115, 116	ECQB1H393JF3	50V 0.039U
C117, 118	ECEA1HKA010B	50V 1U
C119, 120	ECQB1H472JF3	50V 4700P
C121, 122	ECKR1H103ZF5	50V 0.01U
C123, 124	ECBT1H270J5	50V 27P
C125, 126	ECBT1H181KB5	50V 180P
C201-204	ECCR1H101K5	50V 100P
C205-208	ECBT1H101KB5	50V 100P
C209, 210	ECCR1H101K5	50V 100P
C213, 214	ECQV1H563JM3	50V 0.056U
C219, 220	ECBT1H271KB5	50V 270P
C221-224	ECBT1H181KB5	50V 180P
C231, 232	ECQV1H563JM3	50V 0.056U
C251, 252	ECEA0JKA101B	6.3V 100U
C253, 254	ECQV1H104JM3	50V 0.1U
C301, 302	ECA1HPXS3R3B	50V 3.3U
C303, 304	ECCR1H101K5	50V 100P
C305, 306	ECBT1H820KB5	50V 82P
C307, 308	ECA1HPXS4R7B	50V 4.7U
C309, 310	ECBT1H390J5	50V 39P
C311, 312	ECA1CPXS100B	16V 10U
C313, 314	ECQV1H823JM3	50V 0.082U
C315, 316	ECQB1H153JF3	50V 0.015U
C317, 318	ECQB1H183JF3	50V 0.018U
C319, 320	ECQB1H222JF3	50V 2200P
C321, 322	ECBT1E223ZF	25V 0.022U
C323, 324	ECBT1H121KB5	50V 120P
C401, 402	ECA1HPXS3R3B	50V 3.3U
C403, 404	ECCR1H271K5	50V 270P
C405, 406	ECA1CPXS220B	16V 22U
C407, 408	ECBT1H820KB5	50V 82P
C409, 410	ECBT1H150J5	50V 15P
C411, 412	ECBA1H681KB5	50V 680P
C413, 414	ECCV2H070D	500V 7P
C415, 416	ECQB1H102JF3	50V 1000P
C426	ECBT1H102KB5	50V 1000P
C427	ECBT1E223ZF	25V 0.022U
C428	ECKR1H103ZF5	50V 0.01U
C451, 452	ECKR1H333ZF5	50V 0.033U
C453-456	ECCV2H680K	500V 68P
C457-460	ECEA1HKA3R3B	50V 3.3U
C461, 462	ECKR2H103ZU	500V 0.01U
C501-504	ECAOJPXS101B	6.3V 100U
C505, 506	ECQV1H473JM3	50V 0.047U
C507	ECEA0JKA101B	6.3V 100U
C508	ECA1HM470B	50V 47U

Ref. No.	Part No.	Values & Remarks
C509	ECEA1HN100SB	50V 10U ⚠
C511, 512	ECBT1H180J5	50V 18P
C513-518	ECQV1H473JM3	50V 0.047U
C519-522	ECQB1H153JF3	50V 0.015U
C523, 524	ECBT1H102KB5	50V 1000P
C525, 526	ECQB1H152JF3	50V 1500P
C531, 532	ECBT1C332KR5	16V 3300P
C551, 552	ECEA1JU010B	63V 1U
C705, 706	ECA1JPXS221B	63V 220U
C707-709	ECA1JAP220B	63V 22U
C711	ECQE2104KF3	250V 0.1U ⚠
C712	ECQV1H104JM3	50V 0.1U
C713	ECQV1H104JM3	50V 0.1U ⚠
C714	ECA1CM471B	16V 470U
C715	ECEA1HKA010B	50V 1U
C716	ECA1CM102B	16V 1000U
C751-756	ECA1HPXS4R7B	50V 4.7U
C761	ECEA1CKA101B	16V 100U
C762	ECBT1E103ZF	25V 0.01U
C763	ECEA1AKA470B	10V 47U
C801	ECA0JM102B	6.3V 1000U
C802	ECBT1E1032F	25V 0.01U
C804	ECEA0JKA101B	6.3V 100U
C805	ECBT1H101KB5	50V 100P
C806	ECEA1HKA2R2B	50V 2.2U
C807	ECEA1HKAR47B	50V 0.47U
C808, 809	ECBT1E103ZF	25V 0.01U
C810	ECEA1CKA220B	16V 22U
C811, 812	ECEA1HKAR47B	50V 0.47U

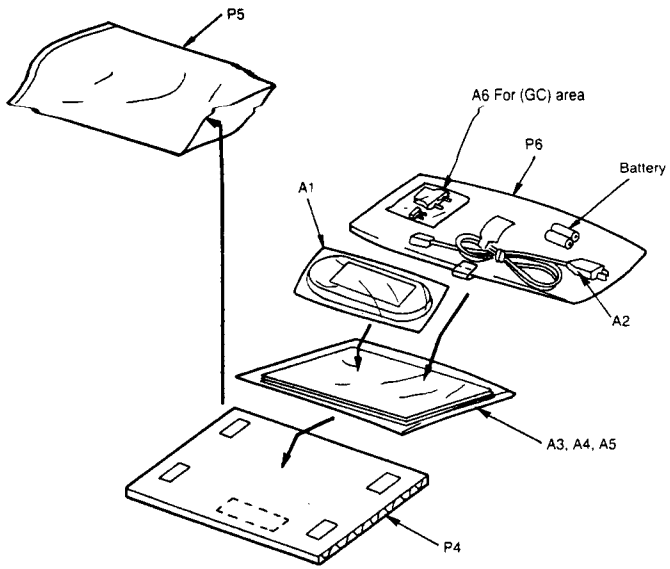
■ CABINET PARTS LOCATION

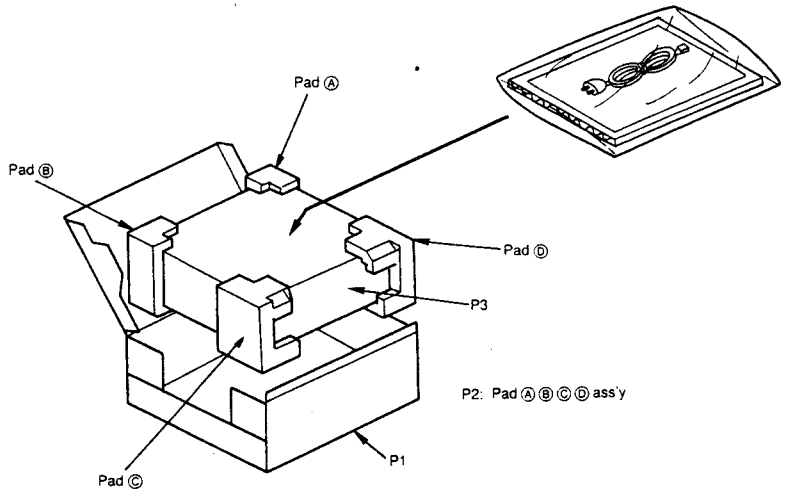


Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET PARTS	
1	RGW0127A-K	VOLUME KNOB	
2	RGW0150-K	TONE KNOB	
3	RGW0151-K	SELECTOR KNOB	
4	RKM0036A-K	CABINET	(EG, GC, GN)
4	RKM0179-K	CABINET	(EB, EO)
5	SNE2129-1	SCREW	
6	XTBS3+8JFZ1	SCREW	
7	RGR0152A-D	REAR PANEL	(EG)
7	RGR0152A-E	REAR PANEL	(EB)
7	RGR0152A-F	REAR PANEL	(EO)
7	RGR0152A-G	REAR PANEL	(GC)
7	RGR0152A-E	REAR PANEL	(GN)
8	RGU0030	POWER BUTTON	
9	RHN90001	NUT	
10	RFKJUVX620EG	BOTTOM BOARD ASS'Y	
10-1	RKA0053-A	FOOT	
11	RMC0142	REC EARTH SPRING	
12	RMN0189	P. C. B. ANGLE	
13	RSQ0022	REMOTE SWITCH CONTROLLER	
17	XTB3+8JFZ	SCREW	
18	SHR415	LATCH	
19	RGK0394-A	RING	
20	RGK0412-K	SIDE ORNAMENT(L)	
21	RGK0413-K	SIDE ORNAMENT(R)	
22	RGK0480-K	VOLUME ORNAMENT	
23	RGL0164-C	ORNAMENT	
24	RGL0165-C	ORNAMENT	
25	RGU0609-K	MODE BUTTON	
26	RGU0611-K	DIRECT BUTTON	
27	RGU0764-K	REMOTE CONTROL BUTTON	
28	RMR0460-K	HOLDER	
29	RMR0461-K	HOLDER	
30	RMR0502	SPACER	
31	RSC0287	SHIELD PLATE	
32	XTBS26-8J	SCREW	
33	SHE187-2	P. C. B. SPACER	
34	SHR9814	CLAMPER	
35	SJS9231A	AC INLET COVER	(EG, EB, EO, GC)
35	SJS9234A	AC INLET COVER	(GN)
36	SNE2123	GND SCREW	
37	SUS890	SPRING	
38	XTBS3-8JFZ1	SCREW	
39	XTW3+15T	SCREW	
40	XTB3-20JFZ	SCREW	
41	XTB3-8JFZ	SCREW	
42	XTWS3-8T	SCREW	
43	XTBS26-8J	SCREW	
44	RFKGLVX720EG	FRONT PANEL ASS'Y	
45	RGK0415-K	UPPER PLATE	(EB, EO)

Ref. No.	Part No.	Part Name & Description	Remarks
46	RSC0216	ANGLE	
47	RSQ0023	REMOTE SWITCH CONTROLLER	
48	RSC0245	SHIELD PLATE	
49	RMQ0259-1	ANGLE	
50	RWJ3907130Q	FLAT CABLE(7P) (W702)	
51	RWJ3903050KX	FLAT CABLE(3P) (W501)	
52	RMN0143	CAPACITOR BASE	
		PACKING MATERIALS	
P1	RPG1303	PACKING CASE	
P2	RPN0539	PAD	
P3	XZB50X65A02Z	PROTECTION COVER	
P4	RPQ0164	ACCESSORIES PAD	
P5	XZB24X34C04	PROTECTION COVER	
P6	XZB22X20C03	PROTECTION COVER	
		ACCESSORIES	
A1	RAK-SU301W	REMOTE CONTROL TRANSMITTER	
A1-1	RKK0020-K	BATTERY COVER	for REMOTE CONT.
A2	RJA0019-1K	AC POWER SUPPLY CORD	⚠(EG, EO)
A2	SJA193	AC POWER SUPPLY CORD	⚠(EB)
A2	RJA0004	AC POWER SUPPLY CORD	⚠(GC)
A2	SJA173	AC POWER SUPPLY CORD	⚠(GN)
A3	RFKSUVX620EG	INSTRUCTIONS MANUAL	(EG)
A3	RQT1623-B	INSTRUCTIONS MANUAL	(EB, GN)
A3	RQT1624-E	INSTRUCTIONS MANUAL	(EO)
A3	RFKSUVX720GC	INSTRUCTIONS MANUAL	(GC)
A4	RQA0013	WARRANTY CARD	
A5	RQC80169	SERVICE CENTER LIST	
A6	SJP9215	POWER PLUG ADAPTOR	⚠(GC)

■ PACKAGING





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